Wireless Music Center

WAC3500
WAC3500D

User manual

POWERED BY gracenote.

connectedplanet

PHILIPS

Important notes for users in the U.K.

Mains plug

This apparatus is fitted with an approved 13-Amp plug. To change a fuse in this type of plug, proceed as follows:

1. Remove fuse cover and fuse.
2. Fix the new fuse which should be a BS1362 5-Amp, A.S.T.A. or BSI approved type.
3. Refit the fuse cover.

If the fitted plug is not suitable for your socket outlets, it should be cut off and an appropriate plug should be fitted in its place.

If the mains plug contains a fuse, it should have a value of 5 Amp. If a plug without a fuse is used, the fuse at the distribution board should not be greater than 5 Amp.

Note: The severed plug must be disposed, so as to avoid a possible shock hazard due to it being inserted into another 13-Amp socket.

How to connect a plug

The wires in the mains lead are colored using the following codes: blue = neutral (N), brown = live (L).

- As these colors may not correspond with the color markings identifying the terminals in your plug, proceed as follows:
  - Connect the blue wire to the terminal marked N or colored black.
  - Connect the brown wire to the terminal marked L or colored red.
  - Do not connect either wire to the earth terminal in the plug, marked E (or e) or colored green (or green and yellow).

Before replacing the plug cover, make sure that the cord grip is clamped over the sheath of the lead and not simply over the two wires.

Copyright in the U.K.

Recording and playback of any materials may require consent. See Copyright Act 1956 and The Performerb's Protection Acts 1958 to 1972.

CE 0682 ! R&TTE Directive 1999/5/EC

BE ✓	DK ✓	GR ✓	ES ✓	FR ✓
IE ✓	IT ✓	LU ✓	NL ✓	AT ✓
PT ✓	FI ✓	SE ✓	UK ✓	NO ✓
DE ✓	CH ✓	PL ✓	HU ✓	SK ✓
CZ ✓				

Philips Consumer Electronics

HK- 0721-WAC3500D
(report No.)

EC DECLARATION OF CONFORMITY

We,

Philips Consumer Electronics
(manufacturerís name)

Philips, Glaslaan 2, 5616 JB Eindhoven, The Netherlands
(manufacturerís address)

declare under our responsibility that the electrical product:

Philips	WAC3500D/12 /05
(name)	*(type or model)*

Wireless Music Center
(product description)

to which this declaration relates is in conformity with the following standards:

EN55013 : 2001 +A1:2003	EN 300 328 : 2004
EN55020 : 2002 + A1:2003 +A2:2005	EN 301 489-1 : 2005
EN 55022: 2006	EN 301 489-17: 2002
EN 55024: 1998 +A1:2001 +A2:2003	EN 50371 : 2002
EN 60065: 2002 +A1:2006	

(title and/or number and date of issue of the standards)

following the provisions of R &TTE Directive 1999/5/EC (incl. 73/23/EEC & 93/68/EEC directives and is produced by a manufacturing organization on ISO 9000 level.

Eindhoven,
May 24, 2007
(place, date)

Eric Tijssen
Program Manager
PCE I-Lab Entertainment Solutions
(signature, name and function)

LGPL Library written offer

This product contains Linux 2.4.27-vrsl, that is made available under the GNU LGPL license version 2.1 (hereafter called "the Library").

Philips Electronics Hong Kong Ltd. hereby offers to deliver or make available, upon request, for a charge no more than the cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code of the Library on a medium customarily used for software interchange.
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5/F., Philips Electronics Building
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This product contains Linux 2.4.27-vrsl, that is made available under the GNU GPL license version 2 (hereafter called "the Program").

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5 Science Park East Avenue
Hong Kong Science Park
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1.1 About WAC3500/ WAC3500D*

For true convenience, the all-in-one Wireless Music Center WAC3500 with 80GB hard disk lets you stream music from your PC, dock your iPod, plug and play from USB devices, and enjoy HDD playback - all in superb sound.

You can centrally store up to 1500 audio CDs** in the 80GB hard disk on WAC3500. All stored music will then be wirelessly streamed from the Center to the connected Stations (sold separately) via Wi-Fi***. Your music enjoyment will no longer be restricted by the location of your CD player or PC, nor the messy wiring.

* WAC3500D is WAC3500 with an iPod docking cradle.

** The available storage capacity is based on the following - 4 minutes per song, 10 songs per CD on the average, MP3 encoding at 128 kbps, while also taking into consideration that the operational software also takes up part of the product's memory.

Hence, the free space available might be at 75 GB or less, depending on the pre-installed firmware, audio CD database and demo tracks.

*** Wi-Fi, or IEEE802.11 b/g, is the international leading industry standard for wireless broadband networking. Digital data will be transferred with wider range and bandwidth.

1.2 Supplied accessories

- 1 x remote control with 2 x AAA battery
- 1 x FM wire antenna
- 1 x Ethernet cable
- 1 x Power cord
- 1 x PC Suite CD
- 1 x iPod docking (for WAC3500D)
- 8 x iPod dock adaptor (for WAC3500D)

This set complies with the radio interference requirements of the European Community.

Philips Consumer Electronics, BG Entertainment Solutions, hereby declares that this product WAC3500 is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.

The making of unauthorized copies of copy-protected materials, including computer programs, files, broadcasts and sound recordings, may be an infringement of copyrights and constitutes as a criminal offence.

This equipment should not be used for such purposes.

1. General information

1.3 Philips on-line support

Products from Philips have been designed and manufactured to the highest quality standards. If your Philips "Connected Planet" product is not working correctly, we recommend that you check the User Manual to verify that your product has been properly connected and configured.

To enhance your home entertainment experience, our Connected Planet support website (www.philips.com/support) offers you all the information you need to fully enjoy your product as well as the new additions to our exciting range of products.

Please visit: www.philips.com/support and enter your product name (WAC3500/WAC3500D) to view:

- FAQ (Frequently Asked Questions)
- Latest user manuals and PC software manuals
- Firmware upgrade files for WAC3500/WAC3500D
- Latest PC software downloads
- Interactive troubleshooting

As it is possible for you to upgrade your product, we recommend that you register your product on www.club.philips.com so that we can inform you as soon as new and free upgrades are available.

Enjoy your WAC3500/WAC3500D!

1.4 Environmental information

All redundant packaging material has been omitted. We have done our utmost to make the packaging easily separable into three mono materials: cardboard (box), polystyrene foam (buffer) and polyethylene (bags, protective foam sheet).

The set consists of materials which can be recycled if disassembled by a specialised company. Please observe the local regulations regarding the disposal of packaging materials, exhausted batteries and old equipment.

Disposal of your old product

Your product is designed and manufactured with high quality materials and components, which can be recycled and reused.

When this crossed-out wheeled bin symbol is attached to a product it means the product is covered by the European Directive 2002/96/EC

Please inform yourself about the local separate collection system for electrical and electronic products.
Please act according to your local rules and do not dispose of your old products with your normal household waste. The correct disposal of your old product will help prevent potential negative consequences for the environment and human health.

1.5 Maintenance

Cleaning the Set

- Use a soft cloth slightly moistened with a mild detergent solution. Do not use any solutions that contain alcohol, spirits, ammonia or abrasives.

Cleaning of Discs

- When a disc becomes dirty, clean it with a cleaning cloth. Wipe the disc from the center out.
- Do not use solvents such as benzene, thinner, commercially available cleaners, or antistatic spray intended for analog records.

Care and Handling for HDD (Hard Disk Drive)

The HDD is a fragile piece of device that is easily prone to damage due to its long recording capacity and high speed operation.

- Do not move the unit while it is switched on.
- Do not remove the AC power plug from the power outlet during operation.
- Do not use the unit in excessively hot or humid places. This may cause condensation to form inside the unit.
- If the HDD fails, playback and recording will not be possible. In this case, it will be necessary to replace the HDD unit.

WARNING!

The HDD is not recommended for permanent storage of recorded contents. We advise that you backup your music library in the Center onto your PC. When necessary, you can still restore your system with these backup files. For details, please refer to **6.9 Backup on PC**.

English

1.6 Safety information

- Place the set on a flat, firm and stable surface.
- Keep the system, batteries or discs away from excessive moisture, rain, sand or any heat sources, such as heating equipment or direct sunlight.
- Place the set in a location with adequate ventilation to prevent internal heat build-up in your system. Allow at least 10 cm (4 inches) clearance from the rear and the top of the unit and 5 cm (2 inches) from each side.
- Never cover the ventilation openings with items such as newspapers, table-cloths, curtains, etc as this will impede ventilation.
- Never expose the set to water dripping or splashing.
- Never place objects filled with liquids, such as vases, on the set.
- Never place sources of naked flame, such as lighted candles on the set.
- The mechanical parts of the set contain self-lubricating bearings and must not be oiled or lubricated.

Hearing Safety

Listen at a moderate volume:

- Using headphones at a high volume can impair your hearing. This product can produce sounds in decibel ranges that may cause hearing loss for a normal person, even for exposure less than a minute. The higher decibel ranges are offered for those that may have already experienced some hearing loss.
- Sound can be deceiving. Over time your hearing "comfort level" adapts to higher volumes of sound. So after prolonged listening, what sounds "normal" can actually be loud and harmful to your hearing. To guard against this, set your volume to a safe level before your hearing adapts and leave it there.

To establish a safe volume level:

- Set your volume control at a low setting.
- Slowly increase the sound until you can hear it comfortably and clearly, without distortion.

Listen for reasonable periods of time:

- Prolonged exposure to sound, even at normally "safe" levels, can also cause hearing loss.
- Be sure to use your equipment reasonably and take appropriate breaks.

Be sure to observe the following guidelines when using your headphones:

- Listen at reasonable volumes for reasonable periods of time.
- Be careful not to adjust the volume as your hearing adapts.
- Do not turn up the volume so high that you can't hear what's around you.
- You should use caution or temporarily discontinue use in potentially hazardous situations.
- Do not use headphones while operating a motorized vehicle, cycling, skateboarding, etc.; it may create a traffic hazard and is illegal in many areas.

CAUTION

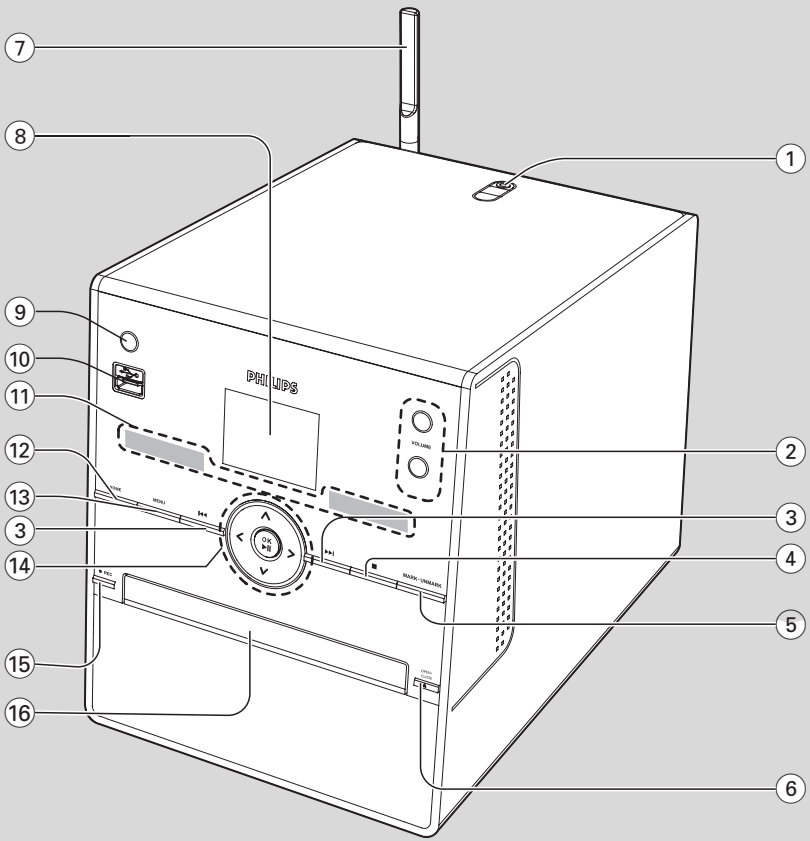
Visible and invisible laser radiation. If the cover is open, do not look at the laser beam.

High voltage! Do not open. You run the risk of getting an electric shock.

The set does not contain any user-serviceable parts.

Modification of the product could result in hazardous EMC radiation or other unsafe operations.

Use of controls or adjustments or performance of procedures other than herein may result in hazardous radiation exposure or other unsafe operation.


7
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PHILIPS
VOLUME

2. Controls

2.1 Controls on The Center
(Top and front panels)

① 🎧
– 3.5 mm headphone socket
Helpful hints:
– *Adjust the volume to a moderate level before plugging in the headphones.*
– *Connecting headphones will switch off the speakers.*

② **VOL + / -**
– adjusts the volume level

③ ⏮ / ⏭
– **HD/CD/UPnP/Portable:** skips/searches tracks/passage backward/forward (in playback screen)
– **FM Radio**: go to previous / next preset radio station (in tuner playback screen)
⏮
– **Text entry**: deletes the input before cursor

④ **STOP**
– stops playback or recording

⑤ **MARK•UNMARK**
– Selects or deselects tracks to be recorded

⑥ **OPEN/CLOSE**
– opens or closes the CD door

⑦ **Wi-Fi antenna**

⑧ **DISPLAY**
– shows status of the set

⑨ **STANDBY-ON/ ECO POWER**
– press briefly to switch on the set or put it on standby mode;
– press and hold to switch the set to power-saving mode or on
– **Green indicator**: lights up in green when the set is switched on
– **Red indicator**: lights up in red when the set is switched to standby mode or power-saving mode

⑩ ⇐•
– jack for the external USB device

⑪ **IR**
– sensor for the infrared remote control
Helpful hint:
– *Always point the remote control towards this sensor.*

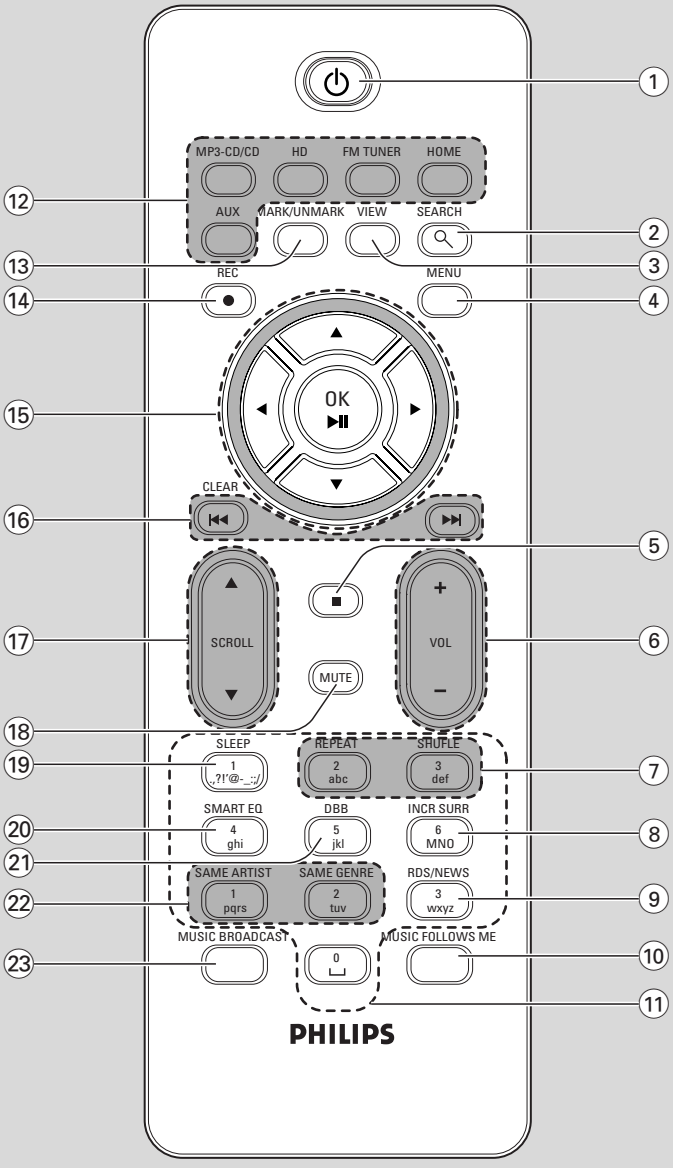
⑫ **HOME**
– selects sound source: HD (hard disk), CD, Radio, UPnP, Portable or AUX
– In standby mode: switches the set on and selects sound source: HD, CD, Radio, UPnP, Portable or AUX

⑬ **MENU**
– enters or exits setup menu

⑭ ◀ / ▶ / ▲ / ▼
– navigation controls (left, right, up, down) for scrolling through the option lists
◀
– **HD/CD/UPnP/Portable:** returns to previous option lists
– ▲ / ▼
– HD/CD/Portable/UPnP: skips/searches tracks/passage backward/forward (in playback screen); fast scrolling in option lists
– **FM Radio**: tunes to radio stations
▶
– confirms selection
FM Radio: enters the list of preset stations
OK/▶II
– starts or pauses playback

⑮ **RECORD**
– **CD/FM Radio/AUX**: starts to record onto the hard disk

⑯ **CD door**



Remote control

2. Controls

2.2 Remote control

① ⏻
– press briefly to switch on the set or put it on standby mode;
– press and hold to switch the set to power-saving mode

② **SEARCH**
– enters the search mode and searches by keywords

③ **VIEW**
– toggles between playback screen and previous option list

④ **MENU**
– enters or exits setup menu

⑤ ■
– stops playback or recording

⑥ **VOL +** / **-**
– adjusts the volume level

⑦ **REPEAT**
– selects continuous playback

SHUFFLE
– selects random playback

⑧ **INCR. SURR.**
– selects surround sound effect

⑨ **RDS/NEWS**
– Radio: selects RDS information
– HD/CD/UPnP/Portable/AUX: toggles between NEWS function on or off

⑩ **MUSIC FOLLOWS ME**
– HD: moves music playback between Center and Station

⑪ **Alphanumeric keys**
– for text entry

⑫ **MP3-CD/CD**
– selects CD source
– In standby mode: switches on the set and selects the CD source.

HD
– selects HD (hard disk) source
– In standby mode: switches on the set and selects the HD source

FM TUNER
– selects FM RADIO source
– In standby mode: switches on the set and selects the FM RADIO source

HOME
– select from: HD source, CD source, Radio source, UPnP source, Portable source or AUX (from a separately connected device)
– In standby mode: switches on the set and select from the following music source: HD, CD, Radio, UPnP, Portable or audio input from a separately connected device

AUX
– selects AUX source
– In standby mode: switches on the set and selects the AUX source

⑬ **MARK/UNMARK**
– Selects or deselects tracks to be recorded

⑭ **REC ●**
– CD/Radio/AUX: starts to record onto the hard disk

⑮ ◀ / ▶ / ▲ / ▼
– navigation controls (left, right, up, down) for scrolling through the option lists

◀
– HD/CD/USB/UPnP: returns to previous option lists
– Text input: moves the cursor backward

▲ / ▼
– HD/CD/USB/UPnP: skips/searches tracks/passage backward/forward (in playback screen); fast scrolling in option lists
– FM Radio: tunes to radio stations

▶
– confirms selection
– FM Radio: enters the list of preset stations
Text entry: confirms input and moves the cursor forward

OK/▶II
– Confirm selection
– Starts playing

⑯ **⏮ (CLEAR) / ⏭**
– HD/CD/USB/UPnP: skips/searches tracks/passage backward/forward (in playback screen)
– FM Radio: go to previous / next preset radio station (in tuner playback screen)

⏮ (CLEAR)
– Text entry: deletes the input before cursor

⑰ **SCROLL ▲ / ▼**
– scrolls the display screen upward or downward

⑱ **MUTE**
– temporarily switches off the sound

⑲ **SLEEP**
– adjusts, displays or switches off the sleep timer

⑳ **SMART EQ**
– HD: selects the sound settings that match the current Genre

㉑ **DBB (Dynamic Bass Boost)**
– toggles the bass enhancement on (DBB1, DBB2, DBB3) or off

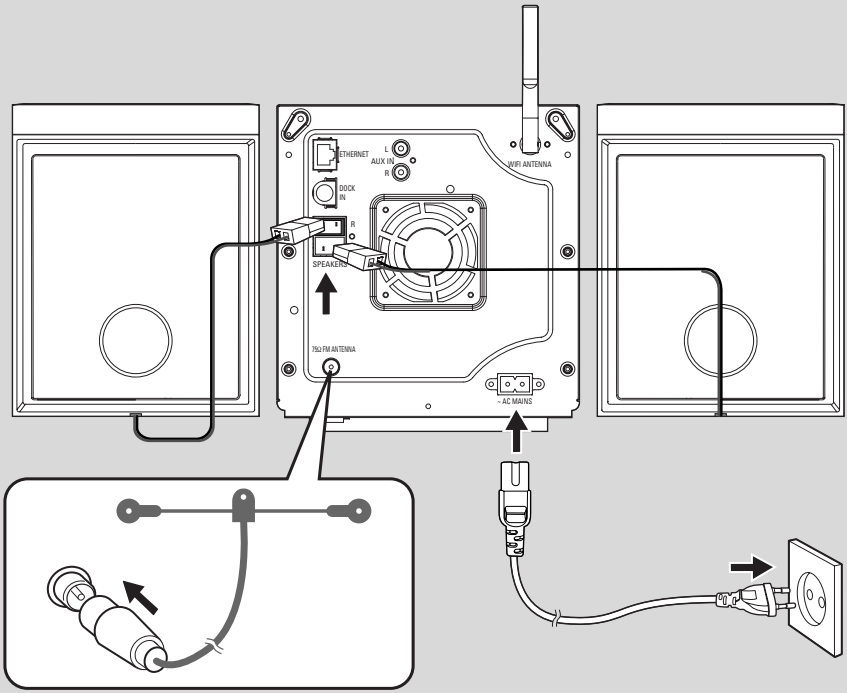
㉒ **SAME GENRE**
– HD: plays all the tracks of current Genre
SAME ARTIST
– HD: plays all the tracks of current Artist

㉓ **MUSIC BROADCAST**
– HD: broadcasts music from Center to Station

2. Controls

2.3 Icons on LCD display

Icon	Description	Icon	Description
	Client connected		Repeat all
	Client not connected		Repeat 1
	Music		Shuffle
	UPnP		Alarm
	Aux mode		Music Broadcast
	CD mode		Music follow me
	HD mode		Mute
	FM Radio mode		RDS/NEWS
	USB mode		Sleep
	iPod mode		Smart EQ
	Recording mode		Wi-Fi connected
			Both Wi-Fi and Ethernet connected


ETHERNET
DOCK IN
L
AUX IN
R
WIFI ANTENNA
R
SPEAKERS
75Ω FM ANTENNA
~ AC MAINS

3. Installation

3.1 Rear connections

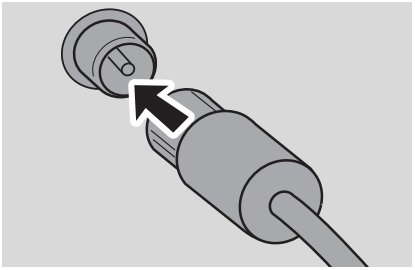
Warning:

– Never make or change the connections when the mains is switched on.

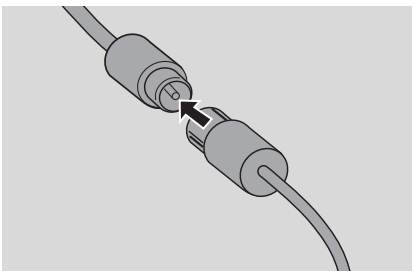
– Install the Center near AC outlets where the AC power plug can be reached easily.

3.1.1 Connecting antenna

1. Extend the wire antenna and fit it to the **FM ANTENNA** as shown below



2. (Optional) To improve FM reception, fit the plug of the wire antenna into the plug of the extension line (sold separately) as shown below
3. Extend the extension line and move it in different positions for optimal reception (as far away as possible from the TV, VCR or other radiation sources)

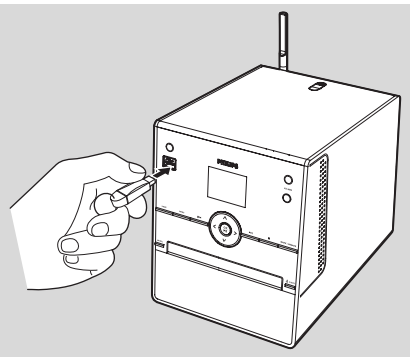


4. Fix end of the extension line to the ceiling

3.1.2 Connecting a USB device

On Center, you can playback music from a USB device. Also, you can transfer the music from the library on the Center to the USB device. Carry your favorite music with you wherever you go.

1. Insert the USB plug of the USB device into the socket ⇿ on the Center



For devices with USB cable:

- Insert one end of the USB cable (not supplied) into the socket ⇿ on the Center
- Insert the other end of the USB cable into the USB output terminal of the USB device

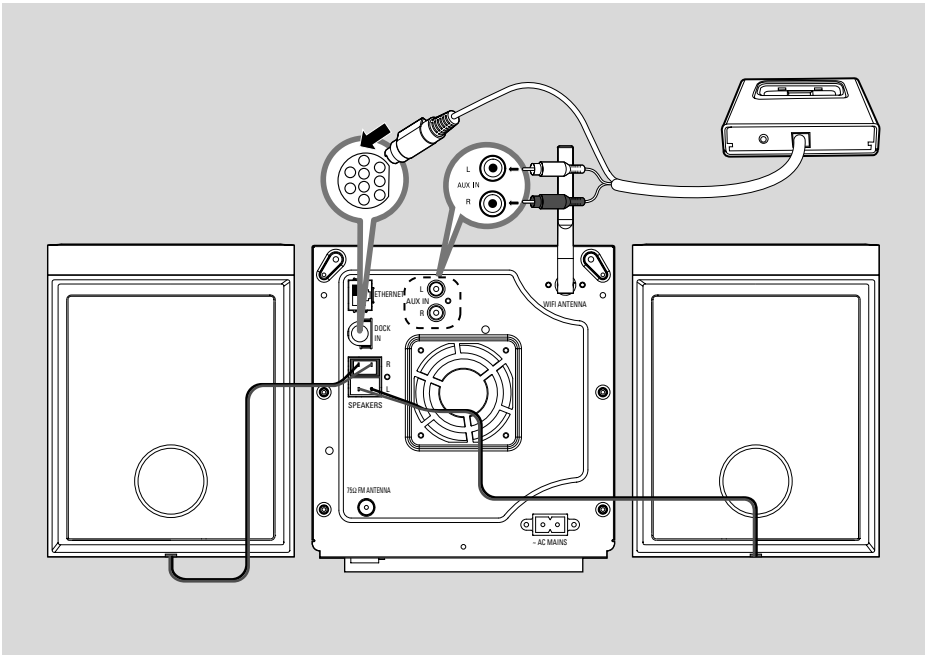
Helpful hints:

The Center only supports USB devices that adhere to the following standards:

- *USB MSC (Type '0')*
- *USB MTP*
- *File system in FAT12/ FAT16/ FAT32*
- *Operations based on simple folder based navigation (also known as a normal FAT file system), and not based on proprietary track database.*

The following USB devices will not be supported by the Center:

- *Products with database based UI (Artists, Albums and Genre based navigation) as these products normally store music files in a specific hidden folder and uses embedded proprietary track database that the Center is unable to read properly.*

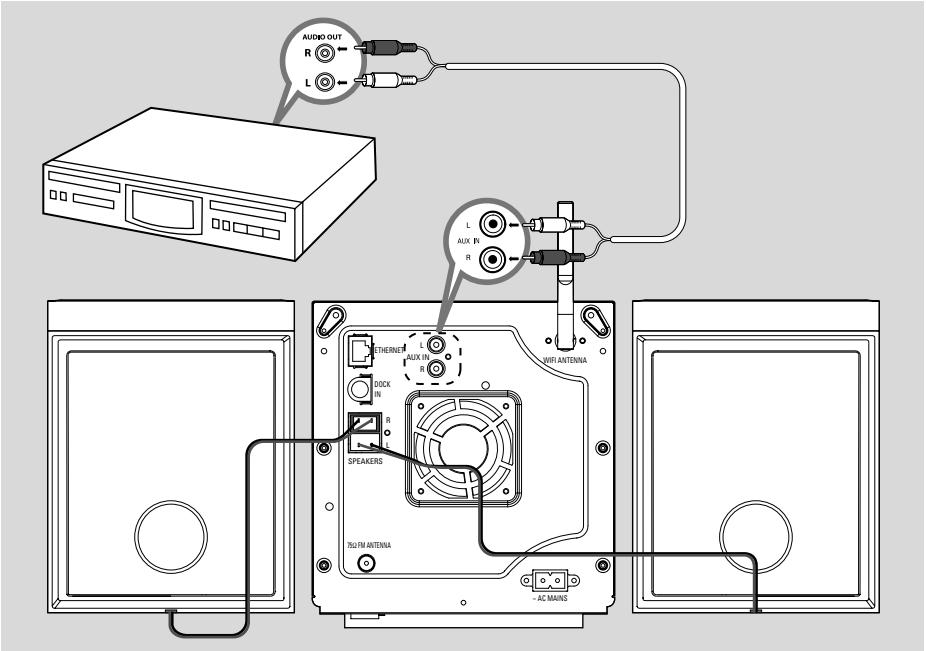


3.1.3 Connecting the iPod dock

You can connect your iPod player to the Center using Philips docking cradle* used for iPod. Now you will be able to enjoy the music library in your iPod player via WAC3500's sophisticated speaker system. You can even recharge the player's battery at the same time.

* For WAC3500, the docking cradle is optional. For WAC3500D, the docking cradle is included.

3. Installation



3.1.4 Connecting to other additional devices

It is possible to play audio output from an external source, e.g. TV, VCR, Laser Disc player, DVD player on the Center. You can also record the audio output to the music library in the hard disk of the Center.

On the additional device

1. Connect one end of the audio cable (not supplied) to the AUDIO OUT terminals on the additional device

On the Center

2. Connect the other end of the audio cables to the **AUX IN** terminals on the Center
3. To playback audio output from the additional device, press **HOME** and select AUX mode by pressing the navigation controls ▲ or ▼ and ▶ (or press **AUX** on the remote control) (see **10.External source**)
4. To record audio output to the Center's music library (hard disk), see **6.5 HD:** Building music library on Center

Helpful hints:

- *If the connected device has only a single AUDIO OUT terminal, connect it to the AUX IN left terminal. Alternatively, you can use a "single to double" cinch cable, but the output sound still remains as mono.*
- *Always refer to the user manual of the other equipment for complete connection.*

3.2 Connecting AC power

1. Make sure that all connections have been made before switching on the power supply
2. Connect the AC power cord to the wall socket. This switches on the power supply

   When the Center is switched to standby mode, they will still be consuming some power.

   To disconnect the system from the power supply completely, remove the power plug from the wall socket.

Helpful hint:

– *Always press and hold STANDBY-ON to switch the set to power-saving mode before removing its power plug.*

The rating label of WAC3500/WAC3500D can be found on the rear of the set.

For users in the U.K.: please follow the instructions on page 2.

English

4.1 Using the remote control

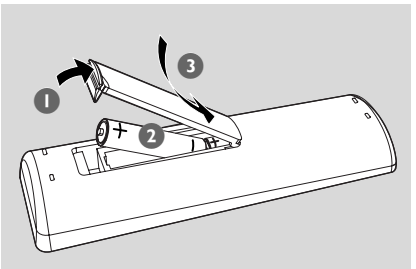
The WAC3500 is equipped with a remote control. With the supplied remote control, you can operate the Center.

IMPORTANT!

- ***Always point the remote control directly towards the IR sensor on the Center you wish to operate.***
- ***First, select the source you wish to control by pressing one of the source select keys on the remote control (for example MP3-CD/CD, HD, HOME).***
- ***Then select the desired function (for example ▶II, ⏮ / ⏭).***

4.1.1 Inserting batteries into the remote control

1. Open the battery compartment
2. Insert 2 batteries (type R03 or AAA) into the remote control with the correct polarity (as indicated by the "+" and "-" symbols inside the battery compartment)
3. Replace the compartment door



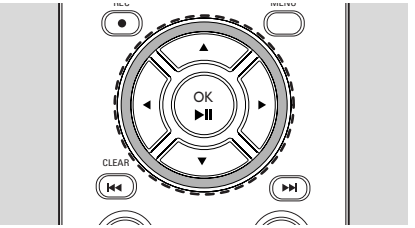
Caution!

- *Remove the batteries when they are exhausted or when the remote control will not be used for a long time.*
- *Do not use old and new or different types of batteries together.*
- *Batteries contain chemical substances, hence they should be disposed of properly.*

4.2 Using navigation controls

When selecting options on the set, you often need to:

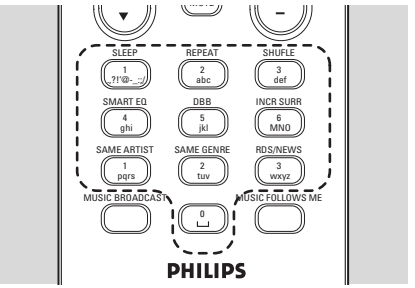
1. Press ▲ / ▼ to highlight an option.
2. Enter its submenu by pressing ▶
3. Press ◀ to return to the previous option list
4. Press **OK/▶II** or ▶ to confirm



4.3 Using alphanumeric keys

Use the alphanumeric keys to input letters or numbers.

1. When the text box appears, press the **alphanumeric keys** repeatedly until the desired letter/number appears



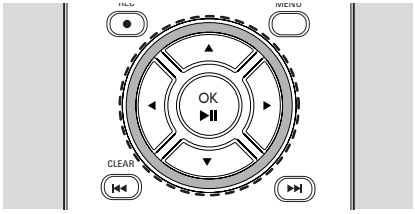
2. Press ◀ / ▶ to move the cursor backward / forward

Helpful hint:

- *You will enter the previous/next option list if the cursor reaches the beginning or end of the text box.*

3 Press ⏮ to delete the entry before the cursor.

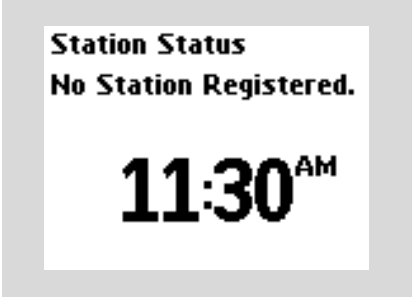
4 Press **OK/▶II** to close the text box and move to the next option list.



5. Basic functions

5.1 Switching to standby/on and selecting functions

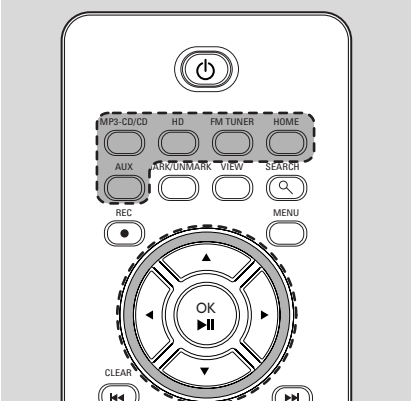
1. When the set is switched on, press **STANDBY-ON/ ECO POWER** to switch it to standby mode (or press ⏻ on the remote control)
   - ➜ The Red indicator lights up
   - ➜ Center: The screen dims. Display shows the connected or previously connected Stations
   - ➜ The time will be displayed. —:— appears if you have not set the clock



2. To switch on, press **STANDBY-ON/ ECO POWER** on the set
   - ➜ The set switches to the last source selected
   - ➜ The Green indicator lights up

   OR

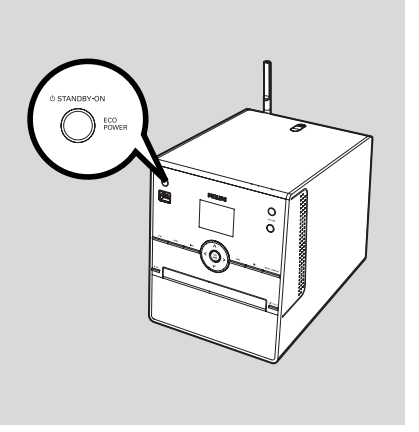
   Press the source button on the remote control (e.g. **CD/MP3-CD, HD, HOME**)
3. To select functions, press **HOME** and select the source by pressing the navigation controls ▲ or ▼ and ▶ (or press **MP3-CD/CD, HD, FM TUNER, AUX** on the remote control)



5.2 Switching to power-saving mode

In power-saving mode, the set's display and Wi-Fi connection are turned off. The Center's hard disk also stops working. When the Center is switched to power-saving mode, you cannot import music from the PC to Center.

1. When the set is on, press and hold **STAND-BY- ON/ ECO POWER** to switch it to power-saving mode (or press and hold ⏻ on the remote control).
   - ➜ The Red indicator lights up
   - ➜ The display is switched off
2. To switch on, press **STANDBY-ON/ ECO POWER**.



   - ➜ The set switches to the last source selected

Helpful hints:

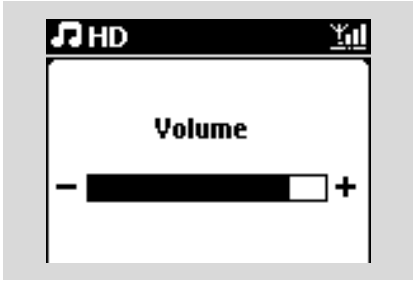
- *In power-saving mode, the networking, sound, display, language, CD recording settings, the tuner presets, and the volume level (maximum: the moderate level) will be retained in the set's memory.*
- *To protect the hard disk and avoid losing tracks, always switch the Center to standby/power-saving mode before removing its power plug from the wall outlet.*

5.3 Auto-standby

When the set has reached the end of playback/ recording and remains in the stop position for more than 20 minutes, the set will switch to standby mode automatically to save power.

5.4 Volume control

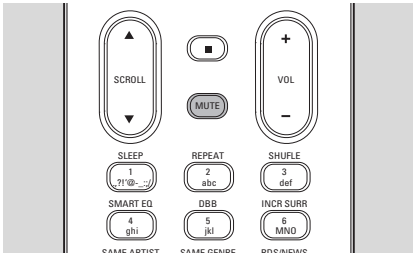
1. Check that playback has started
2. Adjust the volume with **VOL +/-** buttons
   ➜ Display shows the volume bar, indicating the volume level



5.5 Mute

During playback, you can temporarily switch off the sound without switching off the set.

1. Press **MUTE** to switch off the sound.
   ➜ The icon 🔇 appears. Playback continues without sound.
2. To switch on the sound, press **MUTE** again or adjust the volume with **VOL +**.
   – You can also switch on the sound by activating **MUSIC BROADCAST** on the Center.



➜ The icon 🔇 disappears

5.6 Sound control

5.6.1 Equalizer

Equalizer enables you to select predefined sound settings.

1. Press **MENU** to enter the menu screen
2. Use the navigation controls ▲ or ▼ and ▶ to select **Equalizer**.

3. Press ▲ or ▼ and ▶ to select Rock, Pop (default), Jazz, Neutral, Techno, Classical or Bass/Treble
4. Press **OK/▶II** (or ▶) to confirm

To set Bass/Treble:

1. Press **MENU** to enter the menu screen
2. Use the navigation controls ▲ or ▼ and ▶ to select **Settings**
3. Press ▲ or ▼ and ▶ to select **Treble/Bass**
4. Press ◀ / ▶ / ▲ / ▼ to select your option: Treble (+3 to -3), Bass (+3 to -3)

5.6.2 Bass adjustment

- Press **DBB** (Dynamic Bass Boost) once or more times to select your option: DBB OFF (by default), DBB 1, DBB 2 or DBB 3.

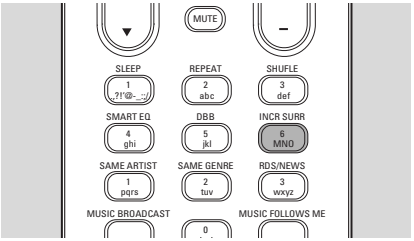
Helpful hint:

– *Some discs might be recorded in high modulation, which causes a distortion at high volume. If this occurs, switch off DBB or reduce the volume.*

English

5.6.3 Incredible surround

- Press **INCR SURR** on the remote control once or more times to toggle the surround sound effect on or off



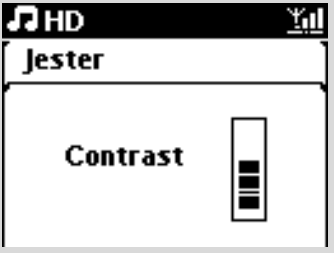
➜ Display shows IS ON or IS OFF

5.7 Display adjustment

You can adjust the backlight and contrast settings of the display.

1. Press **MENU** to enter the menu screen
2. Use the navigation controls ▲ or ▼ and ▶ to select **Settings**.
3. Press ▲ or ▼ and ▶ to select **Display**
4. Press ◀ / ▶ / ▲ / ▼ to select your option:
   Backlight
   Press ▲ or ▼ and ▶ to select **On** or **Off**

   Contrast:
   Press ▲ or ▼ to increase or reduce the contrast



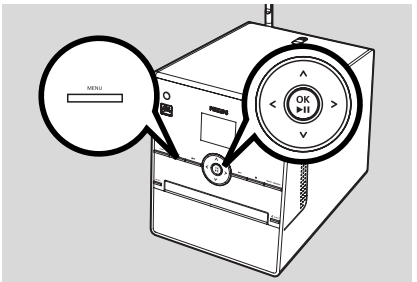
5.8 Selecting languages

1. Press **MENU** to enter the menu screen
2. Use the navigation controls ▲ or ▼ and ▶ to select **Settings**
3. Press ▲ or ▼ and ▶ to select **Language**
4. Press ▲ or ▼ and ▶ to select from:
   English, Français, Español, Nederlands, Italiano or **Deutsch**.

5.9 Clock

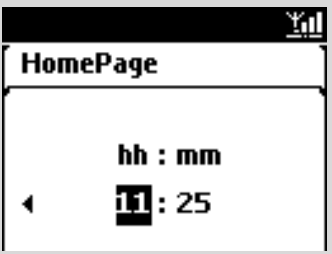
5.9.1 Setting clock

The time can be displayed in 24-hour or 12-hour format. You can set up your clock on the Center.



1. Press **MENU** to enter the menu screen.
2. Use the navigation controls ▲ or ▼ and ▶ to select **Settings** followed by **Time**

3. To set clock time,
   a. Press the navigation controls ▲, ▼ and ▶ to select **Set Time**
   ➜ The display shows current clock setting (00:00 by default)
   b. Press the navigation controls ▲, ▼ or Numeric Keypad (0-9) repeatedly to set the hour followed by the minute.

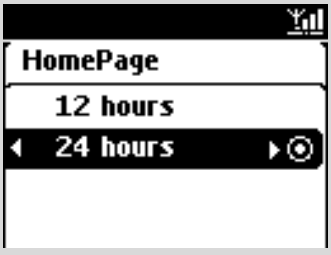


c. Press **OK/▶II** to confirm the clock setting.

Helpful hints:

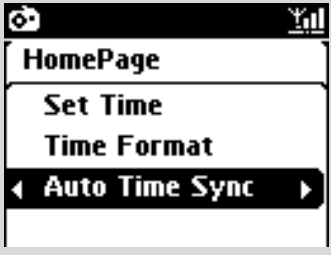
To change to 12-hour or 24-hour format

- *In the Time menu, select* **Time Format** *(see the above Step 2)*
- *Press ▲ or ▼ and ▶ to select your option.*
- *The clock setting will not be saved when the set is disconnected from the power supply.*

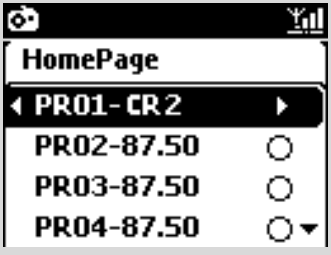


5.9.2 Synchronizing clock

1. In the Time menu, select **Auto Time Sync**



➜ The display shows the preset radio stations



2. Use the navigation controls ▲ or ▼ and ▶ to select an RDS radio station to synchronize the time.

5.9.3 Viewing clock

Press and hold **VIEW** button for about 5 seconds.

➜ Clock will be shown briefly on the display.

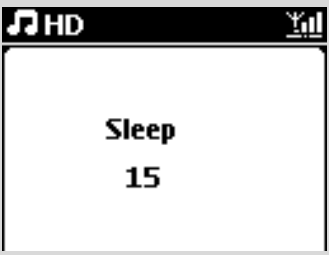
Helpful hint:

- *In standby mode, you may press* ***VIEW*** *button briefly to turn on the LCD backlight so as to view clock clearly.*
- *Reset clock if the power cord is plugged in again.*

5.10 SLEEP

You can preset a certain period of time after which the Center will switch to standby mode.

1. On the remote control, press **SLEEP** repeatedly to select the desired time period (in minutes):
   - ➜ The display shows in sequence: Sleep 15, 30, 45, 60, 90, 120, Off.
   - ➜ Display shows the selected option briefly and returns to its previous status. The icon **Z^z** appears.
2. To view the countdown time to standby mode, press **SLEEP** again



- To deactivate the sleep timer, press **SLEEP** repeatedly until Sleep Off is displayed
- Press **STANDBY-ON/ ECO POWER** to switch the set to standby (or press ⏻ on the remote control)

English

5.11 Alarm

IMPORTANT!
Before setting the alarm, check that the clock setting is correct.

5.11.1 Setting alarm time

1. Enter the alarm setting menu
   a. Press **MENU**
   b. Use the navigation controls ▲ or ▼ and ▶ to select **Settings** followed by **Alarm**
2. To turn on the alarm
   a. Press ▲ or ▼ and ▶ to select Alarm On/Off
   b. Press ▲ or ▼ and ▶ to select On
   ➜ Alarm On appears. The icon appears.

3. In Alarm Time menu, set the alarm time
   a. Press the navigation controls ▲ or ▼ repeatedly to set the hour followed by the minute
   b. Press **OK/▶II** to confirm

5.11.2 Setting repeat mode

1. To set repeat mode for the alarm sound.
   a. In the alarm setting menu, press ▲ or ▼ and ▶ to select **Repeat**.

   b. Press ▲ or ▼ and ▶ to select the desired repeat mode.
   ➜ **Once:** activates the alarm only once.
   ➜ **Daily:** repeats the alarm every day.

5.11.3 Activating/de-activating alarm

Stopping alarm tone

1. When the alarm tone is heard, press any button
   ➜ The alarm tone will be stopped
   ➜ Your alarm settings remain unchanged

Activating/de-activating alarm

1. Enter the alarm setting menu.
   a. Press **MENU**
   b. Use the navigation controls ▲ or ▼ and ▶ to select **Settings** followed by **Alarm**
2. To toggle the alarm on/off
   a. Press ▲ or ▼ and ▶ to select Alarm On/Off
   b. Press ▲ or ▼ and ▶ to select **On** or **Off**.

6.1 Playing music from Hard Disk (HD)

Music is centrally stored in the 80GB hard disk on the WAC3500. All the stored music can be streamed and played on the Station (sold separately) via Wi-Fi.

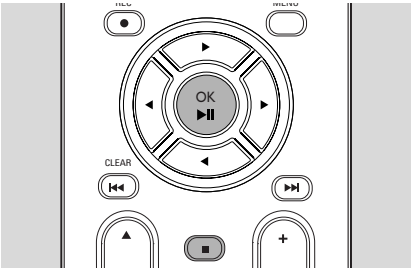
1. Check that the set is switched on (See **5.Basic functions**)
2. Press **HOME** and use the navigation controls ▲ or ▼ and ▶ select **HD** (or press **HD** on the remote control)
   ➜ Display shows HD and the categories of your music library: **Playlists, Artists, Albums, Genres, All tracks**.

Playlists: collection of your favorite tracks sorted by the name of the playlists in alphanumeric order
Artists: collection of albums sorted by artist name in alphanumeric order
Albums: collection of albums sorted by album name in alphanumeric order
Genres: collection of albums sorted according to music style
All tracks: tracks sorted by track name in alphanumeric order

3. Press the navigation controls ▲ or ▼ and ▶ to select your option
4. Press **OK/▶II** to start playback
   - Press **OK/▶II** on a highlighted artist, genre or album to start playback from the beginning of the item
     ➜ The playback screen appears:

on the top: Status bar (Icons, playback mode and playback settings, such as shuffle/repeat, sleep/alarm, etc.)
in the middle: current track name and track information
at the bottom: elapsed playing time and total playing time

5. To pause playback, press **OK/▶II**. To resume playback, press the button again



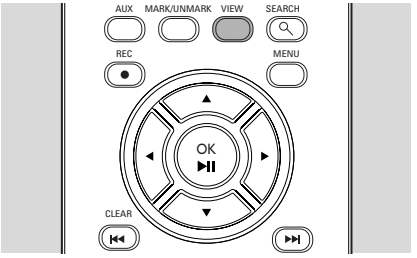
6. To stop playback, press **STOP ■**

English

6.2 Selecting and searching

6.2.1 Selecting a different option

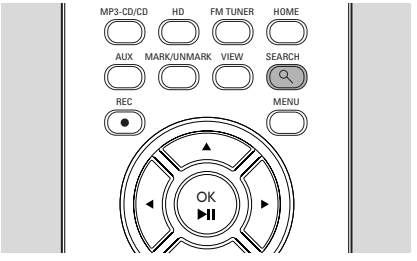
1. If necessary, press ◀ repeatedly to enter previous option lists
2. Press the navigation controls ▲ or ▼ repeatedly and ▶ to select the option
3. Press **VIEW** to return to the playback screen, if necessary



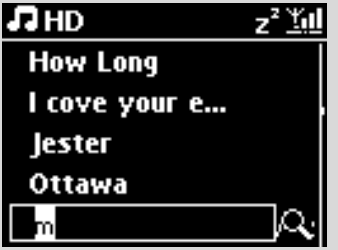
6.2.2 Searching by keywords

The keyword should be the first letter or word of the title of the track you wish to search for. By inputting a keyword, you can quickly find all the items containing the word (note that it is case sensitive)

1. Use the navigation controls ◀ / ▶ / ▲ / ▼ to enter the desired option list of tracks, albums, artists or playlists
2. On the remote control, press **SEARCH**
   ➜ A text box appears on the display



3. Use the **alphanumeric keys** to input the key words (maximum 8 characters) (see **4.3 Preparation:** Using Alphanumeric Keys)



4. Press **OK/▶II** to start searching
   ➜ Display shows: **Searching ...** Searching starts from the beginning of current option list
   ➜ The matched items appear at the top of the list
   ➜ The option list remains unchanged if no match is found. **Searching ...** disappears
5. Press **STOP** ■ to stop searching

Helpful hints:

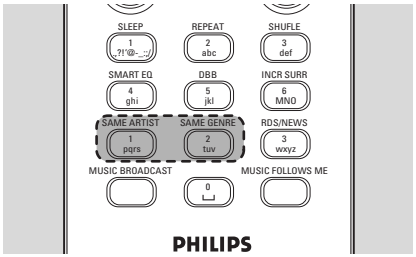
– *The searching will also stop when:*
  – *you select another source*
  – *you switch off the set*
– *If no match is found during the keyword search, press ⏮ or ⏭ on the remote control to find close matches.*
– *In HD mode, please enter the second level (any folder) to search.*

6.2.3 Selecting tracks of a particular artist

1 During playback, press **SAME ARTIST**
➜ Playback of tracks by the current artist continues after current track.

6.2.4 Selecting tracks of a particular genre

1 During playback, press **SAME GENRE**
➜ Playback of tracks with the same genre as the current track continues after the current track.



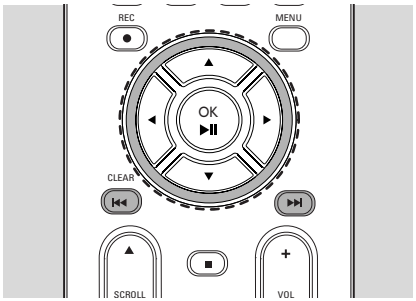
6.2.5 Selecting a track in the current album during playback

1 In the playback screen, press the navigation controls ▲ or ▼ briefly and repeatedly to select previous or next tracks (or ⏮ / ⏭ on the remote control)

6.2.6 Finding a passage within the current track during playback

1 In the playback screen, press and hold the navigation controls ▲ or ▼ (or ⏮ / ⏭ on the remote control)
➜ The track plays at a high speed

2 When you recognize the passage you want, release ▲ or ▼ (or ⏮ / ⏭ on the remote control)
➜ Normal playback resumes.

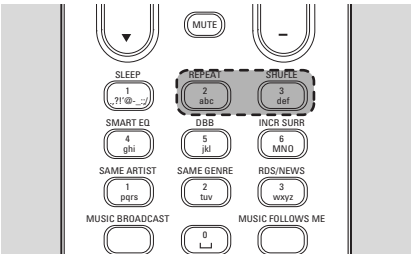


6.3 Different play modes: REPEAT, SHUFFLE

– plays the current track continuously
– repeats all the tracks (under current Artist, Genre or Album)
– repeats all the tracks (under current artist, genre or album) in random order
– tracks (under current artist, genre or album) are played in random order

1 During playback, press **REPEAT** or/and **SHUFFLE** once or more times to select play modes

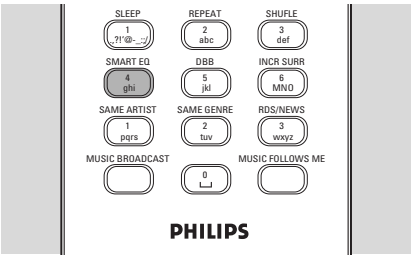
2 To return to normal playback, press **REPEAT** or/and **SHUFFLE** repeatedly until the various modes are no longer displayed



6.4 Smart equalizer

This function enables you to playback music of the current genre with the matched sound settings.

- During playback, press **SMART EQ**
  ➜ The icon appears if SMART EQUALIZER is activated



- To deactivate SMART EQUALIZER, adjust the sound settings (DBB, Incr. Surr. or Equalizer)
  ➜ The icon disappears

English

6.5 Building music library on the Center

You can build a music library in the hard disk of the Center by recording from CDs, importing from PC and recording from external sources.

IMPORTANT!

- ***Recording is permitted only if there is no infringement of copyrights or any other rights of third parties.***
- ***For CDs encoded with copyright protection technologies used by some record companies, recording will be restricted.***
- ***The making of unauthorized copies of copy-protected material, including computer programmes, files, broadcasts and sound recordings, may be an infringement of copyrights and constitute a criminal offence. This equipment should not be used for such purposes.***

Be responsible
Respect copyrights

6.5.1 Recording from CDs

With WAC3500, you can record audio CD tracks from your CDs and store them as MP3 files in the Center's hard disk. The Gracenote® music recognition service enables your set to look up CD information (including album, artist, genre, track information) from its database. It allows the recorded CD tracks to be properly categorized (for example, under Artists, Albums, Genres or All tracks) and also merged with the existing tracks in the hard disk. To update your Gracenote® music recognition service database, see the manual ***Connect to your PC***.

POWERED BY gracenote.

Music recognition technology and related data are provided by Gracenote®. Gracenote is the industry standard in music recognition technology and related content delivery.
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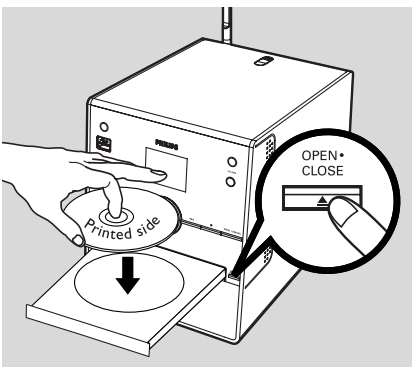
Gracenote and Gracenote music recognition database are registered trademarks of Gracenote. The Gracenote logo and logotype, and the "Powered by Gracenote" logo are trademarks of Gracenote.

To record from CD at fast speed
(for audio CDs, MP3/WMA/M4A CDs)

1. Check that the Center is switched on (See **5. Basic functions**).
2. Press **OPEN•CLOSE▲** on the set to open the CD compartment.



3. Insert a disc with the printed side facing up. Press **OPEN•CLOSE▲** again to close the compartment.
   ➜ Display shows: Reading CD
   ➜ List of tracks appears.

– If it is an MP3/WMA/M4A CD, a list of file folders appears. Press ▶ on a highlighted file folder to enter the track list.

4 In the track list screen, press **REC ●**
➜ List of tracks with checkboxes appears

5 Press **MARK•UNMARK** to select or deselect the tracks to be recorded

● To select/deselect all tracks, press and hold **MARK• UNMARK**

6 Press **REC ●** to start recording
➜ Display shows CD-Rec and the current album name

(a default album name, e.g. Album_001, is assigned if the CD track information cannot be found in the Center's Gracenote® music recognition service database)
➜ The Center returns to CD mode when ripping is complete

7 To rip another CD, repeat Steps 1-6 again

8 To stop recording, press **STOP ■**

Helpful hint:
– The recording is at fast speed by default.
*– The WAC3500 allows you to look up the latest CD information via the Internet from the online Gracenote® music recognition service database if you are unable to find it in the built-in Gracenote® music recognition service database. See **12.1.1 Gracenote CD Information: To update Gracenote music recognition database**.*

To record from CD during playback
(for audio CDs only)

❶ During playback, press **REC ●**
➜ Recording and playback start from the current track
➜ Display shows CD-Rec and the current album name

or

❶ Follow Steps 1-5 under **To record from CD at fast speed**

❷ Change the recording speed:
a. Press **MENU**
b. Use the navigation controls ▲ or ▼ and ▶ to enter **Settings** menu
c. Press ▲ or ▼ and ▶ select **Rec Speed**
d. Press ▲ or ▼ and ▶ select **Normal Speed**

❸ Press **REC ●** to start recording

Helpful hints:
*– It takes some time to convert the recorded tracks into MP3 files. Always switch the set to power-saving mode before removing its power plug to avoid losing tracks (see **5.Basic functions**).*

English

To find your recorded tracks

You can find and playback the recorded tracks in Albums

1. Select **HD** source
2. In Albums, use the navigation controls ▲ or ▼ and ▶ to enter the album of recorded tracks
   – Only completely recorded tracks can be found in the Center's hard disk.

Helpful hint:

– By default, the recorded tracks are converted to MP3 files at the rate of 128kbps (near-CD quality). For better sound quality, you can select a higher kbps rate.

1. Enter Rec quality menu,
   a. Press **MENU**
   b. Use the navigation controls ▲ or ▼ and ▶ to enter **Settings** menu.
   c. Press ▲ or ▼ and ▶ to select **Rec quality**
2. Press ▲ or ▼ and ▶ to select from 128kbps,160kbps, 192kbps, 256kbps, 320kbps.
   – To edit track information, install the supplied Wireless Audio Device Manager (WADM) on your PC. For details, see the manual **Connect to your PC**.

6.5.2 Importing from PC

The Wireless Audio Device Manager (WADM) in the by-packed PC installer helps you import music files into the WAC3500 and organize them on your PC.

1. Connect your WAC3500 to power supply
2. Connect your WAC3500 to PC via the supplied ethernet cable
3. Install and launch WADM. (For details, see the manual **Connect to your PC**.)
4. Click **Content management**

- A new window will be shown.
5. On **My Computer** panel, click to highlight a desired file/folder
6. Drag selection to **My Device** panel
7. While transferring, you can add more file/folder(s) to the transfer queue

6.5.3 Recording from Radio or external source

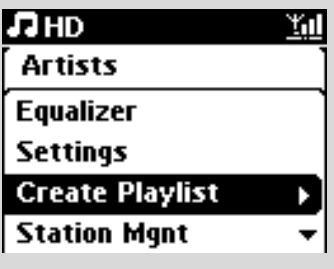
A maximum recording time of 3-hours can be made from the FM radio or external source.

1. In FM Radio mode, tune to the desired radio station (see **8.1 FM radio: Tuning to radio stations**).
   or
   In AUX mode, start playback from the external source
2. Press **REC** ●
   ➜ Recording starts
3. Press **STOP** ■ to stop recording
   ➜ The recording will be saved as a file under RADIO or AUX in Albums. A file name is assigned, e.g. Radio_xx, or Aux_xx (where xx denotes a number)

6.6 Creating Playlist: custom collection of your favorite music

You can create up to 99 playlists consisting of your favorite tracks in the Center's hard disk.

1. Press **MENU** to enter the menu screen.
2. Press ▲ or ▼ and ▶ to select **Create Playlist**



   ➜ A new playlist is created (a default album name, e.g. Playlist_001, is assigned)
   ➜ Display shows: Playlist created. To add tracks, select **Add to Playlist**
3. Use the navigation controls ◀ / ▶ / ▲ / ▼ to highlight the desired track (see **6.2 HD: Selecting and searching**)
4. Select **Add to Playlist**,

a. Press **MENU** to enter the menu screen
b. Press ▲ or ▼ and ▶ to select **Add to Playlist**
➜ A list of playlists appears

5. Press ▲ or ▼ and ▶ to select the desired playlist
➜ Display shows: Track(s) added to playlist

6. Repeat Steps 3 to 5 to select and store all desired tracks.

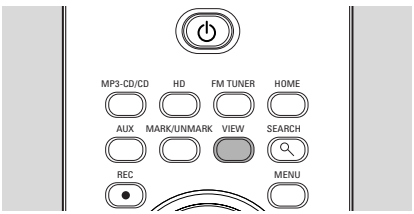
6.7 Deleting a playlist, album or track

1. Use the navigation controls ◀ / ▶ / ▲ / ▼ to enter a category (Playlist, Artists, Albums, Genres, All tracks)
2. If necessary, press ▲ or ▼ and ▶ once or more times to enter the album/track list
3. To select **Delete Playlist**, **Delete Album** or **Delete Track**:
a. Press **MENU**
b. Use the navigation controls ▲ or ▼ and ▶ to select **Delete Playlist**, **Delete Album** or **Delete Track**

4. Press ▶ to select **Yes**.

6.8 Viewing track information

1. Press **VIEW** on the remote control once or more times to enter the playback screen.



2. Press ▶
➜ The display shows the track information (e.g. track name, file type, file size, bit rate of mp3/wma files)
3. Press **VIEW** once or more times to return to the playback screen

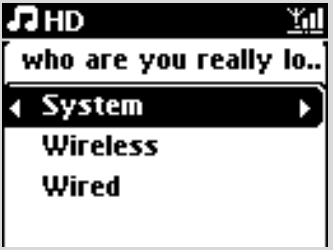
6.9 Backup Music Content On Your PC

The Wireless Audio Device Manager (WADM) in the by-packed PC Suite CD allows you to backup contents on the HD to your PC. The backup files on your PC can be subsequently restored to the Center if the files on the HD are lost or corrupted. For details, see the manual **Connect to your PC**.

English

6.10 Viewing system information

1. Select **Information** on the Center
   a. Press **MENU** to enter the menu screen
   b. Press the navigation controls ▲ or ▼ and ▶ to enter Information menu
   ➜ The display shows: **System**, **Wireless** and **Wired**



2. Press the navigation controls ▲ or ▼ and ▶ to select **System**
   ➜ The following information will be shown on the display: the name of the Center, firmware version and free hard disk space

6.11 Editing track information

You can edit track title, Album name etc. on the Center with the remote control.

1. Press **HD** on the remote control
2. Press ▲ or ▼ and ▶ to select the track to be renamed
3. Press **MENU**
   ➜ "Edit" is shown on the LCD display
4. Press ▲ or ▼ and ▶ to select **Edit**
   Now you can start editing track information by following the sequence below: Edit track title ' Edit Artist name ' Edit Album name ' Edit Genre name
5. Press the following keys on remote control to edit track information:

Alpha-numeric keys	Insert text into the current position.
◀	Move highlight to previous editing position. If it is already at leftmost position, press this button to move to previous screen.
▶	Move highlight to next editing position.
⏮	Press it briefly to delete the text before cursor.
OK/▶II	Confirm the text and enter next screen.

6. After completed editing Genre name, the LCD will shows "Updating..." first and then "Update success" (if succeed) or "System busy, please edit later" (if failed).

Helpful hints:

- *If no any key is pressed for 60 seconds, the edit screen will disappear without saving anything.*
- *The maximum length of editing string is 21-characters.*
- *If the recorded tracks is not recognized (see User Manual section 6.5.1 Recording from CD), the display will show "Album name: xxx, to rename, refer to manual." Follow steps above to edit the track information.*
- *You can also edit album/playlists name when browsing album/playlists list:*

*a. Press **HD** on the remote control*
b. Press ▲ or ▼ and ▶ to select the Album or Playlists
c. Follow steps 3-6 above to change the album/playlists name.
After applied the new name, all tracks within this album/playlist will have the new album/playlists name

- *You may also use the ▲ or ▼ on Center or remote control to enter text:*

▲	Press it briefly to jump to previous character; press and hold it to fast scroll through the character list
▼	Press it briefly to jump to next character; press and hold it to fast scroll through the character list

7.1 Discs for playback

You will be able to play the following on this system:
– all pre-recorded audio CDs (CDDA)
– all finalized audio CD-Rs and CD-RWs (12cm CD and 8cm 185 or 200 MB CD)
– MP3/WMA/M4A-CDs (CD-Rs/CD-RWs with MP3/WMA/M4A files)

IMPORTANT!

– This system is designed for regular discs. Therefore, do not use any accessories such as disc stabilizer rings or disc treatment sheets, etc.

About MP3/ WMA/AAC

The music compression technology MP3 (MPEG1 Audio Layer 3), WMA (Windows Media Audio) and AAC (AAC-LC audio up to L3 in MPEG-4/.m4a files.) significantly reduces the digital data of an audio CD, while maintaining the sound quality.
Windows Media Audio® is a registered trademark of Microsoft Corporation.

Supported formats:

– Disc format ISO9660, Joliet, UDF (created on Adaptec Direct CD v5.0 and Nero Burning ROM UDF v5.5) and multi-session CDs
– MP3 bit rate (data rate): 32-320 Kbps and variable bit rate.
– 12-cm 650Mb and 700Mb CD-R/ CD-RWs
– Directory nesting up to a maximum of 8 levels
– WMA v9 or earlier (max. 192Kbps cbr)
– AAC (AAC-LC audio up to L3 in MPEG-4/.m4a files.)

The system does not play or support the following:

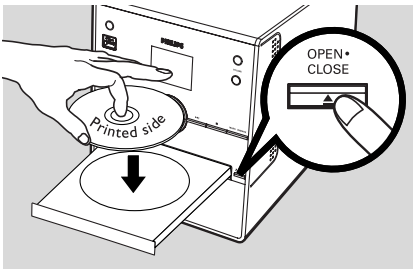
• Empty albums: an empty album is an album that does not contain any MP3/WMA/m4a files, and hence will not be shown on the display.
• Non-supported file formats are skipped. This means that e.g. Word documents or MP3 files with .doc and .dlf extension are ignored and will not be played.
• DRM protected WMA files
• WMA files in Lossless

Helpful hints:

– *Make sure that MP3 files end with a .mp3. extension, WMA files end with a .wma extension and AAC files end with a .m4a extension.*
– *For DRM protected WMA files, use Windows Media Player 10 (or later) for CD burning/ conversion. Visit www. microsoft.com for details about Windows Media Player and WM DRM (Windows Media Digital Rights Management).*

7.2 Playing discs

1. Check that the Center is switched on (See **5. Basic functions**).
2. Press **OPEN•CLOSE▲** on the set to open the CD compartment.
3. Insert a disc with the printed side facing up. Press **OPEN•CLOSE▲** again to close the compartment.



➜ Display shows: Reading CD
➜ Audio CD: the list of tracks appears (track information will appear if it is available from the Gracenote Music Recognition Service database)
➜ MP3/WMA/M4A CD: the list of albums appears.

IMPORTANT!

– *In case your Music Center displays the following message after inserting a CD*
– *"**READING CD...**" for longer than 5 minutes* **or**
– *"**NO DISC**" suggest you to eject the CD and insert it again.*

Helpful hints:

– "Others" is displayed if you have not organized your MP3/WMA/M4A files into any albums on your disc.
– "CDDA" is displayed if the disc contains both Audio CD tracks and MP3/WMA/M4A files.
– "All tracks" is displayed for an MP3/WMA/M4A CD

4. Press the navigation controls ▲ or ▼ and ▶ to select your option
5. Press **OK/▶II** to start playback

● MP3/WMA/M4A CD: Press **OK/▶II** on a highlighted album to start playback of the album

English

- MP3/WMA/M4A CD: Press **OK/▶II** on All tracks to start playback of all the tracks on the disc

6 To pause playback, press **OK/▶II**. To resume playback, press the button again.

7 To stop playback, press **STOP ■**

8 To remove the disc, press **OPEN•CLOSE▲**

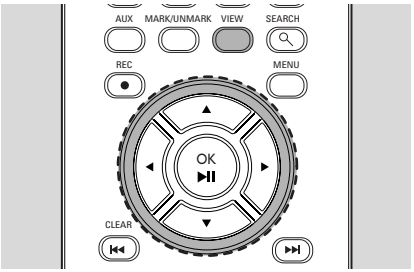
7.3 Selecting and searching

7.3.1 Selecting a different option

1 If necessary, press ◀ repeatedly to enter previous option lists

2 Press the navigation controls ▲ or ▼ and ▶ repeatedly to select the option

3 Press **VIEW** to return to the playback screen, if necessary

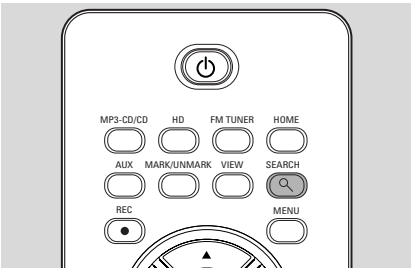


7.3.2 Searching by keywords

The keyword should be the first letter or word of the title of the track you wish to search for. By inputting a keyword, you can quickly find all the items containing the word (note that it is case sensitive)

1 Use the navigation controls ◀ / ▶ / ▲ / ▼ to enter the desired option list of tracks, albums, artists or playlists

2 On the remote control, press **SEARCH**



➜ A text box appears on the display

3 Use the alphanumeric keys to enter the keywords (maximum 8 characters) (see **4.3 Preparation: Using Alphanumeric Keys**)

4 Press **OK/▶II** to start searching
- ➜ Display shows: **Searching ...** Searching starts from the beginning of the current option list
- ➜ The matched items appear at the top of the list
- ➜ The option list remains unchanged if no match is found. **Searching ...** disappears

5 Press **STOP ■** to stop searching

Helpful hints:

– *The searching will also stop when:*
  – *you select another source*
  – *you switch off the set*
– *If no match is found during the keyword search, press ⏮ or ⏭ on the remote control to find close matches.*

7.3.3 Selecting a track in the current album during playback

1 In the playback screen, press the navigation controls ▲ or ▼ briefly and repeatedly to select previous or next tracks (or ⏮ / ⏭ on the remote control)

7.3.4 Finding a passage within the current track during playback

1 In the playback screen, press and hold the navigation controls ▲ or ▼ (or ⏮ / ⏭ on the remote control)
- ➜ The CD plays at a high speed

2 When you recognize the passage you want, release ▲ or ▼ (or ⏮ / ⏭ on the remote control)
- ➜ Normal playback resumes.

7.4 Different play modes: REPEAT, SHUFFLE

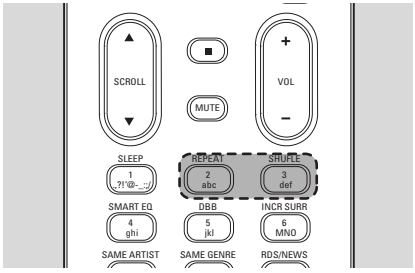
– plays the current track continuously

– repeats all the tracks (under current Artist, Genre or Album)

– repeats all the tracks (under current artist, genre or album) in random order

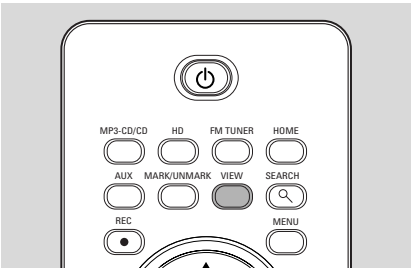
– tracks (under current artist, genre or album) are played in random order

1. During playback, press **REPEAT** or/ and **SHUFFLE** once or more times to select play modes
2. To return to normal playback, press **REPEAT** or/ and **SHUFFLE** repeatedly until the various modes are no longer displayed



7.5 Viewing track information

1. Press **VIEW** on the remote control once or more times to enter the playback screen.



2. Press ▶
   ➜ The display shows the track information (e.g. track name, file type, file size, bit rate of mp3/wma files).
3. Press **VIEW** once or more times to return to the playback screen.

English

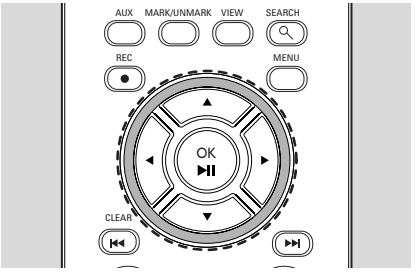
8.1 FM Radio

8.1.1 Tuning to radio stations

1. Connect the supplied FM wire antenna to the Center (see **3.Installation**)
2. Check that the set is switched on or in standby mode (see **5.Basic functions**)
3. Press **HOME** and use the navigation controls ▲ or ▼ and ▶ to select **Radio** > **FM Tuner**
   ➜ Playback screen appears. Display shows: Radio, the radio station frequency and a preset number (if already programmed)

4. Press and hold ▲ or ▼ until the frequency in the display starts running.
   ➜ The radio automatically tunes to a station of sufficient reception. Display shows Searching during automatic tuning
   ➜ If a station is received in stereo, is shown
   ➜ When you are receiving an RDS station, is shown
5. Repeat Step 4 if necessary until you find the desired radio station

- To tune to a weak station, press ▲ or ▼ briefly and repeatedly until optimal reception is detected.



8.1.2 Storing preset radio stations

You can store up to 60 preset radio stations in the memory.

Autostore: automatic programming

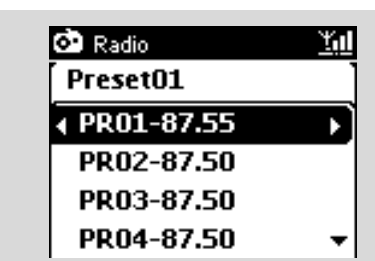
Autostore automatically starts programming radio stations from Preset 1. Available stations are programmed in the order of radio frequencies: RDS stations followed by FM stations. A maximum of 10 RDS stations will be stored (from Preset 01 to Preset 10).

1. To select **Autostore radio**,
   a. Press **MENU**
   b. Use the navigation controls ▲ or ▼ and ▶ to select **Autostore radio**
   ➜ Display shows: **Autostore Please wait...**
   ➜ After all the stations are stored, the first autostored preset station will then play automatically.

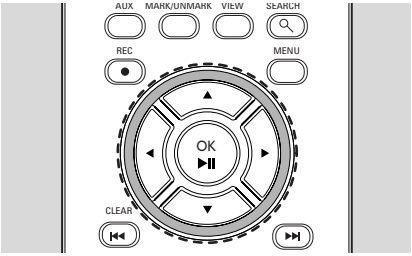
Manual programming

1. Tune to your desired radio station (see **8.1 Tuning to radio stations**).
2. Press **MENU** and use the navigation controls ▲ or ▼ and ▶ to select **Save to Preset**.

➜ The display shows:

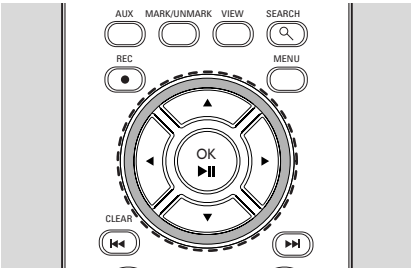


3. Press ▲ or ▼ to select your desired preset number.
4. Press **OK/▶II** or ▶
   ➜ Current radio station is stored to that preset location.



To listen to a preset station

1. Press ▶ to enter the list of preset stations
2. Press ⏮ / ⏭ or use the navigation controls ▲ or ▼ and ▶ to select the desired station.



8.1.3 RDS

RDS (Radio Data System) is a service that allows FM stations to send additional information along with FM radio signal.

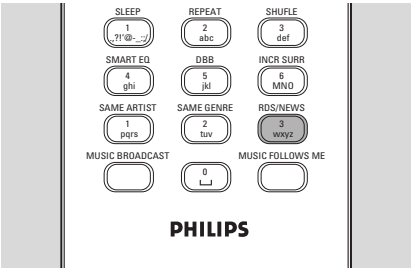
1. Tune to the desired RDS radio station (see **Autostore: automatic programming**).
   ➜ The display shows the following information (if available):
   – name of the radio station
   – radio frequency
   – program type (for example: News, Pop Music)
   – RDS radio text

8.1.4 NEWS

You can activate NEWS while listening to HD, CD, UPnP, AUX or PORTABLE source on WAC3500. The set will tune to the news radio station if the related signals are received from a RDS station.

Activating NEWS

- During playback in HD, CD, UPnP, AUX or PORTABLE source, press **RDS/NEWS** on the remote control.



➜ The icon appears and NEWS ON is displayed briefly
➜ Playback continues when the set scans the first 10 preset stations
➜ When news transmission is detected, the set will switch to the news station. The icon starts flashing

Helpful hints:

– Make sure that you have stored RDS stations in the first 10 preset locations (see **Autostore: automatic programming**).
– If no news transmission is detected during the scanning of the set, the icon disappears and NO RDS NEWS is displayed.

Deactivating NEWS

- Press **RDS/NEWS** again on the remote control.
- Switch the set to Radio source
  ➜ The icon disappears and NEWS OFF is displayed briefly.

9.1 UPnP (Universal Plug and Play)

UPnP is a standard which connects multiple devices with each other and enables them to work seamlessly.
For those users who are familiar with UPnP-enabled devices, WAC3500 brings additional benefits to enrich wireless music streaming experience.
For those who are not so familiar with UPnP-enabled devices, please visit www.upnp.org for details.

9.1.1 About UPnP*

In addition to the music library in the Center, an UPnP-enabled device can also serve as a music library.
The music collection on the UPnP-enabled device can be played on the Center, wirelessly or through an Ethernet cable (supplied).
You can also play the Center's music library on the UPnP-enabled device. Thus expanding your home music network.
*Universal Plug and Play (UPnP™) builds on standard networking technologies and provides standardized protocols for a wide variety of home and small business devices. It allows easy interoperability of all the devices supporting the networking technologies.

9.1.2 About the UPnP-enabled device

The UPnP device can be a PC or other devices running UPnP software. To use the UPnP device with the Center,

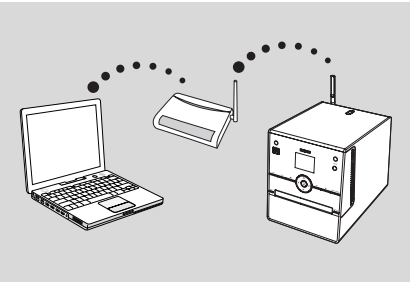
1. Connect the Center to the UPnP device's network (see **9.2 Connecting to the UPnP device**)
2. To play the music library of your UPnP device on the Center, check that the UPnP server software is properly installed and enabled on the device (e.g. Windows Media Player 11, Window Media Connect®)
3. To play the Center's music library on the UPnP device, check that the UPnP device is able to receive music from other UPnP-enabled devices

9.2 Connecting to the UPnP device

When connecting to the UPnP device's network, you have the following options:

1. Connect wirelessly or through an Ethernet cable
2. Connect the Center

For more information on the connection, see **11 Network setting: Connecting to external Wi-Fi network** and **Connecting to external wired network**.



Important:

– *It may take a longer time to connect other UPnP clients to Philips Wireless Music Center than to connect a Philips Wireless Music Station to Philips Wireless Music Center.*
– *To download Windows Media Player 11, use the following URL: http://www.microsoft.com/windows/windowsmedia/download*
– *Windows Media Player and Windows Media Connect are registered trademarks of Microsoft Corporation*

9.3 UPnP playback

Important:

– You can only stream music files in MP3 or WMA/M4A format when WAC3500 is in UPnP mode. You cannot stream video or picture contents.

During UPnP playback, some playback features in the Wi-Fi network on the Center will be unavailable, including Music Broadcast, Music Follows Me, Same Artist, Same Genre, Creating/ Deleting Playlist and recording.

9.3.1 Playing music from the UPnP server

1. Check that the UPnP device is switched on.
   – Switch off the firewall running on the UPnP-enabled PC during UPnP playback
2. Check that the Center is connected to the UPnP device's network (see **11.4 Network setting: Viewing connection status**)
3. Press **HOME** to enter the main menu and use the navigation controls ▲ or ▼ and ▶ to select UPnP mode
   ➜ The display on the set shows a list of connected UPnP servers (up to 4 UPnP servers).
   ➜ **Server not found** appears if there is no UPnP server found in the network

Important:

*– If you cannot find your desired UPnP server on the network, please refresh Center's UPnP mode by going to other mode (press **HOME** and enter the UPnP mode again).*

4. Use the navigation controls ▲ or ▼ and ▶ to select your desired UPnP server
   ➜ The music library of the UPnP server appears on the Center as it does on the UPnP server
5. On the Center, play UPnP server's music library in the same way as you play Hard Disk (HD) (see **6.HD**).**9.3.2**

9.3.1 Playing music from Center (Center as a UPnP server)

1. Check that the Center is switched on or already in standby mode.
2. Check that the UPnP server is connected to the Center (see **11.4 Network setting: Viewing connection status**)
   ➜ The Center's music library appears on the UPnP enabled device as it does on the Center
3. Use the function keys on the UPnP device to play Center's music library

English

10.1 Playing or recording to USB device

You can playback music from a USB device on the Center. You can also transfer the music library in the Center to a USB device so that you can carry your favourite music with you wherever you go.

10.1.1 About the USB device

Compatible USB devices:

The following devices can be used on the Center:

– USB flash memory (USB 2.0 or USB1.1)
– USB flash players (USB 2.0 or USB1.1)

IMPORTANT!

– *In some USB flash players (or memory devices), the stored contents are recorded using copyright protection technology. Such protected contents cannot be played on any other devices (such as the Center).*

Supported formats:

– USB or memory file format FAT12, FAT16, FAT32 (sector size: 512 - 65,536 bytes)
– MP3 bit rate (data rate): 32-320 Kbps and variable bit rate
– WMA v9 or earlier versions
– AAC (AAC-LC audio up to L3 in MPEG-4/.m4a files.)
– Directory nesting up to a maximum of 8 levels
– Number of tracks/titles: maximum 9999
– File name in Unicode UTF8 (maximum length: 256 bytes)

The Center will not play or support the following:

– Empty albums: an empty album is an album that does not contain any MP3/WMA files, and hence will not be shown on the display.
– Non-supported file formats are skipped. This means that e.g., Word documents or MP3 files with .doc and .dlf extension are ignored and will not be played.
– WAV, PCM audio files
– DRM protected WMA files
– WMA files in Lossless format

How to transfer music files from your PC to a USB device

You can easily transfer your favorite music from your PC to a USB device just by dragging and dropping your music files.

For a flash player, you will be able to use its music management software for the music transfer.

Helpful hints:

– Make sure that the file names of MP3 files end with .mp3., the file names of WMA files end with .wma. and the file names of AAC files end with .m4a.

10.1.2 Playing music from the USB device

1. Check that the USB device is properly connected to the Center (see **3.1.2 Installation: Connecting a USB device**)
2. Press **HOME** and use the navigation controls ▲ or ▼ and ▶ to select **Portable**>**USB**
   ➜ The screen shows "USB direct"
   – No USB Device Present appears if the USB device is not supported by the Center
   – File system not supported appears if unsupported file formats are used on the USB device
   ➜ Empty Folder appears if no audio file is found on the USB device

3. Play audio files on the USB as you do with the albums/tracks on the HD (see **6.HD**).

Helpful hint:

– *Due to compatibility reasons, the album/track information may differ from what will be displayed through the flash player's music management software.*

10.1.3 Transferring music to the USB device

IMPORTANT!

– Recording is permitted only if there is no infringement of copyrights or any other rights of third parties.

– You cannot transfer music to USB MTP device.

– The making of unauthorized copies of copy-protected material, including computer programmes, files, broadcasts and sound recordings, may be an infringement of copyrights and constitute a criminal offence. This equipment should not be used for such purposes.

1. Check that the USB device is properly connected to the Center.
2. Press **HOME**.
   – If it is in HD playing mode, press **STOP** to stop playing

3. Press the navigation controls ▲ or ▼ and ▶ to select your option and enter its corresponding list of tracks (if necessary)
4. In the track list screen, press **REC ●**
   ➜ The list of tracks appears.

5. Press **MARK•UNMARK** to select or deselect the tracks to be recorded.

● To select/deselect all tracks, press and hold **MARK• UNMARK**.

Helpful hint:

– *Press ◀ to stop selecting tracks and return to the list of tracks. To continue, repeat Steps 3 to 5.*

6 Press **REC** ● to start recording
- ➜ The display shows transferring ... The number of tracks transferred/to be transferred appears
- ➜ Selected tracks are transferred to the USB device.

7 Press **STOP** ■ to stop recording

Helpful hints:
Recording will also stop when:
- *the USB device is unplugged and the display shows Connection interrupt, Cancel transfer...*
- *the display shows Device is full, Cancel transferring...*

To find the transferred tracks on your USB device
All the transferred tracks are saved under the Music folder. They are named as XX-YY.mp3 (where XX denotes track number and YY denotes track name) and are located under folders and sub-folders in the same way as they are located under the genre, artist and album in the Center's hard disk.

To play the transferred tracks on other music players
You can play the transferred tracks on music players supporting USB playback. On different players, the files/folders may be browsed in different ways.

Helpful hint:
- *DRM protected files might not play if they are transferred to the USB device.*

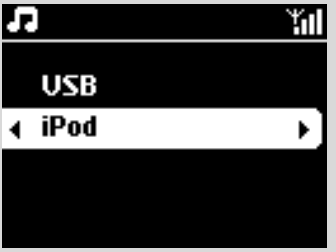
10.2 Playing iPod player

You can enjoy the music library on your iPod via WAC3500's sophisticated speaker system.

1 Check that your iPod player is properly connected to the Center (see **3.1.3 Installation: Connecting the iPod dock**)

2 Check that the Center is switched on or is already in standby mode (see **5.Basic functions**)

3 Press **HOME** to enter the homepage and use the navigation controls ▲ or ▼ and ▶ to select **Portable** > **iPod**.



4 iPod player:
a. turn down the volume to avoid noise distortion
b. press the PLAY key to start playback

5 To adjust the volume, press **VOL+/-** or use the sound controls on your iPod

10.3 Playing other external sources

It is possible to play from an external source on the Center after connecting the audio output, e.g. TV, VCR, Laser Disc player, DVD player. You can also record the audio output to the music library in the hard disk of the Center.

1. Check that the external device is properly connected (see **3.1.4 Installation: Connecting other additional devices**)
2. Check that the Center is switched on or is already in standby mode (see **5.Basic functions**).
3. Press **HOME** to enter the homepage and use the navigation controls ▲ or ▼ and ▶ to select **AUX**.
4. External audio player:
   a. turn down the volume to avoid noise distortion.
   b. press the PLAY key to start playback.
5. To adjust the sound and volume, use the sound controls on your external device or on WAC3500.

11. Network setting

English

You can add WAC3500 to your existing home network. Set your network according to your needs as follows:

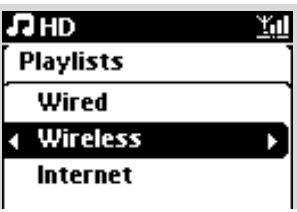
Type	What you want	Go to
Simple Network Setting	Adding a Station to the Center's Wi-Fi network	Section **11.5**
	Connecting to PC for configuration and management	See **Connect to PC section A**1
	Connecting to internet for Gracenote Internet service	See **12.Gracenote CD Information**
Advanced Network Setting	Connecting to external Wi-Fi network	Section **11.1**
	Connecting to external wired network	Section **11.2**
Expert Network Setting	Connecting to two different networks	Section **11.3**

11.1 Connecting to external Wi-Fi network

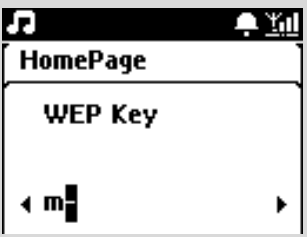
The external Wi-Fi network is a Wi-Fi Infrastructure network, or a Wi-Fi network with an Access Point (AP).
To connect the Center to an external Wi-Fi network, start the networking procedures on the Center.
For music playback within the external network, see **9.3 UPnP: UPnP playback**.

11.1.1 Network setting on Center

1. On the Center, search for networks
   a. Press **MENU** to enter the menu screen
   b. Press the navigation controls ▲ or ▼ and ▶ to enter **Settings**, followed by **Network** and **Wireless**.
   c. Press ▶ to continue.



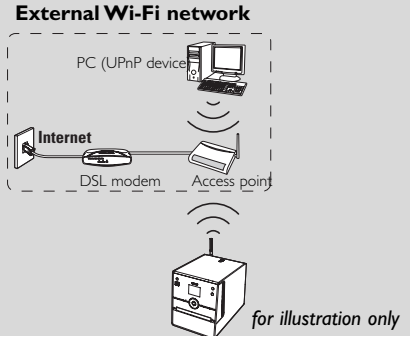
   ➜ The display shows: Searching for Networks
   ➜ The list of networks appears
   ➜ The display shows: Network Not Found if no network is found
2. a. Select the Wi-Fi network where your desired UPnP device is located.
   b. Press ▶ to continue
3. If you already know the WEP/WPA/WPA2 key for the Wi-Fi network:
   a. Use the remote control to enter the WEP or WPA/WPA2 key
   b. Press **OK/▶II** to confirm



If there is no WEP/WPA/WPA2 key for the Wi-Fi network:
Press **OK/▶II** to skip

Helpful hint:

– *For WEP/WPA/WPA2 key setting, always refer to the Access Point's user manual.*



Applicable cases:

Has Wi-Fi network (AP/Wireless router) in home already.

4 Select **Automatic**.

Helpful hint:

– *You can also select Static and assign an IP address as prompted using the alphanumeric keys.*

5 As prompted, select **Yes** to apply the settings
➜ The Center is connected to the external Wi-Fi network

Helpful hint:

– *To add Stations to the Center's Wi-Fi network, follow the steps under* **Adding a Station to the Center's Wi-Fi network**.

– *If you change the WEP/WPA/WPA2 key on the Access Point after you have added the WAC3500 into your home network, the connection between the WAC3500 and your home network will be lost. In this case, you need to re-configure Wi-Fi settings for WAC3500.*

11.2 Connecting to external wired network

The external wired network can be a single PC, a PC network, another Center.

The Center can access the wired and wireless network at the same time. Using the supplied Ethernet cable, you can connect the Center separately to a wired network while maintaining its Wi-Fi connection (e.g. the Wi-Fi connection between the Center and Stations or the Wi-Fi connection with an external network). In this way, you can play the wired network's music library only on the Center(UPnP playback). At the same time, you can still enjoy all the music playback features on the Wi-Fi network.

Helpful hint:

– *For some wired routers, a "Cross Link" Ethernet cable should be used instead of the normal "Straight" Orange cable provided in the box.*

11.2.1 Network setting on Center

1 Check that the network device is switched on and the firewall (if applicable) is switched off.

2 Connect the supplied Ethernet cable to the Ethernet ports on the network device and the Center.

3 On the Center, search for networks
a. Press **MENU** to enter the menu screen
b. Press the navigation controls ▲ or ▼ and ▶ to enter **Settings**, followed by **Network** and **Wired**
c. Press ▶ to continue

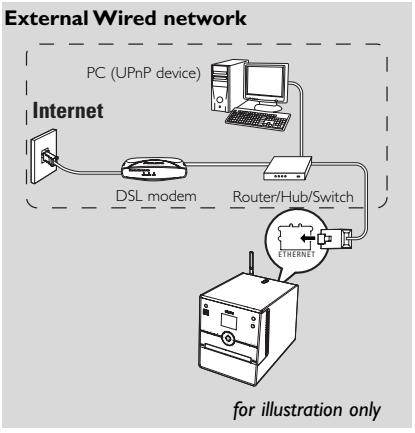
4 If you are using a DHCP*-enabled network device, select **Automatic**
*DHCP stands for Dynamic Host Configuration Protocol. It is a protocol for assigning dynamic IP addresses to devices on a network.

If there is no DHCP

Select Static and assign an IP address and sub-net mask as prompted using the alphanumeric keys (see **4.3 Preparation: Using Alphanumeric Keys**).

English

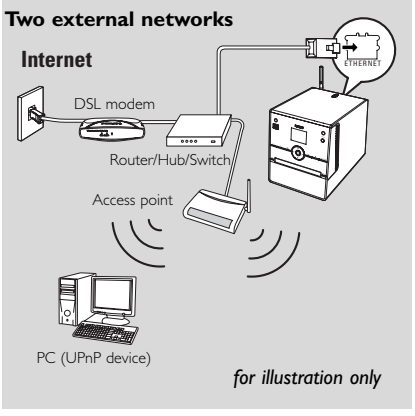
5 As prompted, select **Yes** to apply the settings
➜ The Center is connected to the external wired network
➜ On the display, the icon is changed to



Applicable cases:
Has wired network (Hub/Switch/Router) in home already.

11.3 Connecting to two different networks

WAC3500 can be added into two different networks via wired and wireless network port. Please refer to the advanced network setting section. But you must be careful that the IP addresses of the two network ports cannot be in the same subnet.



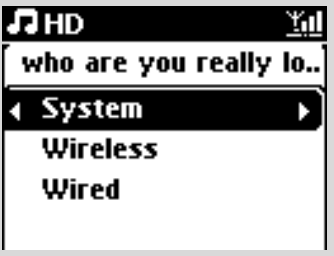
Applicable cases:
Has two networks

IMPORTANT!
– *Once the WAC3500 Center is added into the Wi-Fi network, all Wi-Fi Ad-Hoc connections with the WAC3500 will be shut down.*
– *WAC3500 cannot shadow the IP of the network device that is not activated. Please be careful of the IP address setting to avoid IP address conflict between the wired and Wi-Fi ports.*

11.4 Viewing connection status

11.4.1 Viewing the connection with external network

1 Check that the Center is in HD source
2 Select **Information** on the Center
a. Press **MENU** to enter the menu screen
b. Press the navigation controls ▲ or ▼ and ▶ to enter **Information** menu.
➜ The display shows: System, Wireless and Wired
3 Press the navigation controls ▲ or ▼ and ▶ to select **Wireless** or **Wired**
➜ The display shows:



In Wireless: information about the Wireless settings on the set.
In Wired: information about the Wired settings on the set.

11.5 Adding a Station to the Center's Wi-Fi network

Up to 5 Stations can be connected to the WAC3500 Center. When adding a Station to the Center's Wi-Fi network, you can play the Center's music library on the Station or move music playback between the Center and Stations (see **15**). To add a Station to the Center's Wi-Fi network, proceed as follows:

On the Center

1. Check that WAC3500 Center is in HD source
2. Press **MENU** to enter the menu screen
3. Press the navigation controls ▲ or ▼ and ▶ to enter **Station Mgnt** menu
4. Press ▲ or ▼ and ▶ to select **Add New Station**

➜ You will enter Installation Mode. Searching for the new station starts

➜ Playback stops on the previously associated Station if you are playing the HD source

Helpful hints:

– *If there are 5 stations connected, Add New Station option will not present. In this case, please delete a station first, and then to add new stations*

On Stations

5. Remove the power plug of the Stations, and then connect them to the power supply again
   ➜ Connecting to Center appears
6. a: For WAS700, press **SOURCE** repeatedly to enter **AUX** mode, and then press **MENU** to select **Installation Mode**
   b: For other stations, press **MENU** to select **Installation Mode**
   ➜ HD screen appears if the Station is connected to the Center
   ➜ The Center and the Stations are now in the same Wi-Fi network

On the Center

7. Press **STOP** ■ when all the Stations are found.

12. Gracenote CD Information

English

The Gracenote music recognition service enables the set to look up CD track information (including album, artist, genre, track information) from its built-in database. It allows the recorded CD tracks to be properly categorized (for example, under Artists, Albums, Genres or All tracks) and also be merged with the existing tracks in the hard disk.

12.1 Gracenote music recognition database

A 800 MB CD database (contains 800,000 most popular CDs) is embedded in every WAC3500 Center for quick look-up on track information. An update file that contains newly released CDs is available quarterly on www.club.philips.com for download.

12.1.1 To update Gracenote music recognition database

1. Use your PC to register your product on www.club.philips.com and go to "Show Upgrades & Support" page to download Gracenote Music recognition database update. Note that the updates are posted quarterly and each update is independent of each other, i.e. a later update could be installed without an earlier update.
2. After storing the file on your PC, you can either burn a CD with the update file using your favorite CD burning software and drop the CD into the WAC3500 Center for automatic update, or you can use WADM's Gracenote update option if you have connected your PC to WAC3500 Center.

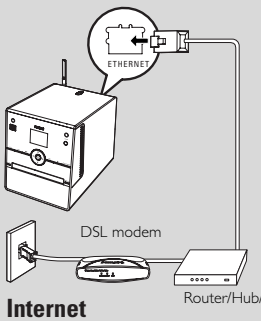
12.2 Gracenote Internet Query

If the CD track information of your new CD disc cannot be displayed on the WAC3500, the quickest and surest solution is to look it up from the internet by following steps below.

12.2.1 Connecting to the Internet

1. Check that you have connected the Center to an Access Point or Router with Internet access or connect the Center to an ADSL modem with Internet access directly

Connect to Internet for Gracenote Internet sevices



for illustration only

Helpful hint:

– Make sure that no dial-up, user name or password is required for the Internet access.

2. Set DNS and Gateway

- ***If you are using a DHCP* enabled Access Point, Router or ADSL modem,*** the DNS and Gateway can be got automatically, so you need only to set the Center to Automatic (DHCP) mode by following steps below:

*DHCP stands for Dynamic Host Configuration Protocol. It is a protocol for assigning dynamic IP addresses to devices on a network.

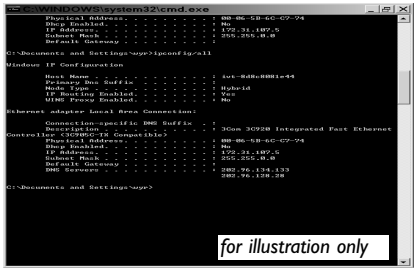
a. Press **MENU**
b. Press ▲ or ▼ and ▶ to select **Settings** > **Network** > **Wired**
c. Press ▶ to continue
d. Press ▲ or ▼ and ▶ to select **Automatic** (DHCP).

- ***If there is no DHCP,*** set the DNS and Gateway manually by following steps below:

On your PC, carry out the following steps:

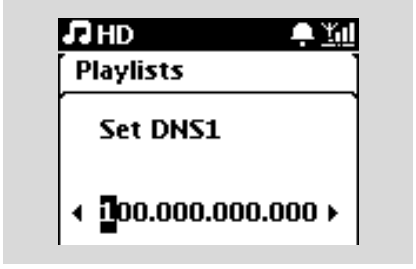
a. Click **Start** > **Run**
b. Type **cmd** and click **OK**
c. Type **ipconfig/all**

d. Write down the DNS and Gateway of the current connection



On the Center

a. Press **MENU** to enter the menu screen
b. Press ▲ or ▼ and ▶ to enter **Settings** > **Network** > **Internet**
c. Press ▶ to continue
d. Set DNS



1) Enter the DNS server you wrote down
2) Press **OK/▶II** to confirm
3) Press **OK/▶II** to skip Set DNS2

Helpful hint:

– If necessary, follow Steps 1) to 2) above to set a secondary DNS server in Set DNS2

e. Set Gateway
1) Enter the Gateway you wrote down
2) Press **OK/▶II** to confirm
f. Set proxy
If you are using a proxy server to visit websites, enable Proxy and proceed with the proxy setting as prompted, then press **OK/▶II** to confirm
Otherwise, press **OK/▶II** to skip

3 Choose to apply the settings as prompted
➜ Settings will change. **Connection to station could be lost** appears.

12.2.2 Looking up CD track information

When you listen to CD tracks, the Center will search from the local Gracenote CD database for information such as Track title, Artist, Genre, etc. and show the searching results on the display. If the information cannot be found and the Center is connected to the Internet, it will then search from online Gracenote CD database.

Helpful hint:

If the internet query failed due to failure in internet connection, the error message "Check the internet setup for Gracenote online" will appear. Check if your internet connection is correct (see **12.2.1** *above)*

13. Firmware Upgrade

English

13.1 Upgrading firmware

You can upgrade the firmware of the WAC3500 from CD-ROM or via the Wireless Audio Device Manager (WADM) in the by-packed PC Suite CD.

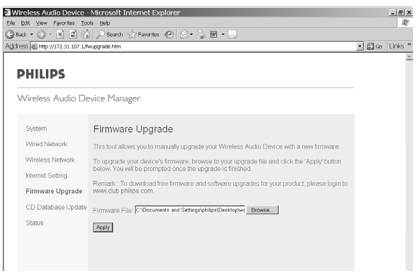
1. Register your Philips Wireless Music Center with www.club.philips.com
2. Download the firmware upgrade files and unzip and store them on your PC

To upgrade from CD-ROM (recommended):

3. *Burn the unzipped upgrade files into a CD-ROM and load the disc into the Center.*

To upgrade via WADM:

3. Place Center on a flat and firm surface
4. Connect Center to power supply
   ➜ HD screen appears on Center
5. Connect Center to your PC via the supplied ethernet cable.
6. Install and launch WADM (see **Connect to your PC section B**)
7. Click **Device Configuration**, and then click the **Firmware upgrade** sub-menu
8. As prompted, click **Browse** and indicate the location where you kept the firmware upgrade files on PC


Wireless Audio Device - Microsoft Internet Explorer
PHILIPS
Wireless Audio Device Manager
System
Wired Network
Wireless Network
Internet Setting
Firmware Upgrade
CD Database Update
Status
Firmware Upgrade
This tool allows you to manually upgrade your Wireless Audio Device with a new firmware.
To upgrade your device's firmware, browse to your upgrade file and click the 'Apply' button below. You will be prompted once the upgrade is finished.
Remark : To download free firmware and software upgrades for your product, please login to www.club.philips.com.
Firmware File:
Browse...
Apply

9. Click **Apply** to start upgrading firmware

On Philips Wireless Music Center:

➜ The display shows "**Updating firmware, please wait...**"
➜ Center will reboot itself during the installation process
➜ When Center returns to HD screen, the installation is completed

IMPORTANT!

– Do not close the web browser, click other options on the page or browse another website until the firmware upgrade is completed.

On Philips Wireless Music Center:

– Never interrupt the firmware upgrading before its completion.
– Before finishing the installation, never operate other functions.

13.2 Restoring previous firmware

After the Center's firmware is upgraded, you can restore it to its previous version as desired.

1. Select HD mode, and then select **Restore firmware**
   a. Press **MENU** to enter the MENU screen
   b. Press the navigation controls ▲ or ▼ and ▶ to enter **Settings**, **Firmware** and **Restore firmware** one by one.
2. Press ▶ to select **Yes**

Helpful hint:

– After restoration to previous firmware, the set will lose Wi-Fi links to associated stations or external network.

14.1 Reset

If desired, you can restore the Center to their default settings (including the network settings).

Helpful hint:

– *Restoring to default settings does not delete any stored music tracks*

When to reset the Center:

– *Resetting the Center helps to re-establish the Wi-Fi connection between the Center and Station.*

– *Change the way the Center connects to an external Wi-Fi/wired network.*

1. Check that the set is switched on (see **5.Basic functions**).
2. Press **MENU** to enter the menu screen
3. Press the navigation controls ▲ or ▼ and ▶ to enter **Settings** followed by **Restore settings**.

4. Press ▶ to select **Yes**
   ➜ The set is rebooted. Language selection screen appears.
5. Select your desired language: **English**, **Français**, **Español**, **Nederlands**, **Italiano** or **Deutsch**
   ➜ The set enters Installation Mode
   ➜ The search for Center starts. The Wi-Fi connection is being re-established

Helpful hint:

– *After restoration to default settings, the network mode will go back to Ad-Hoc mode.*

English

15.1 Music playback between Center and Stations

You can connect up to 5 Stations (sold separately) to the Center via Wi-Fi network. Via Wi-Fi, music playback can be moved between the Center and Stations. Even in different parts of your home, you and your family will still be able to enjoy and share music with ease.

15.1.1 MUSIC FOLLOWS ME

As you move around at home, let the music move with you between the Center and Station or between Stations.

On the source unit (Center) where music is playing:

1. In HD source, select and play the album or playlist you wish to play on the destination unit (see **6.2 HD: Selecting and searching**)

Helpful hints:

– *Press* **OK/▶II** *to interrupt playback if you want the playback to continue from where it has paused on the destination unit.*

– *The selected play modes (e.g.*) *will be retained on the destination unit (see 6.3 Different play modes: REPEAT, SHUFFLE).*

2. Press **MUSIC FOLLOWS ME** to activate
   ➜ The icon ⇨ appears

Helpful hints:

– *MUSIC FOLLOWS ME will be automatically deactivated if you do not activate MUSIC FOLLOWS ME on the destination unit within 5 minutes*

– *To deactivate MUSIC FOLLOWS ME, press MUSIC FOLLOWS ME again or press other function keys (e.g.* ***SLEEP*** *or ◀ / ▶ / ▲ / ▼)*

On the destination unit (Center), where the music will continue:

3. Check that the destination unit is switched on or is already in standby mode
4. Press **MUSIC FOLLOWS ME**
   ➜ Playback of selected music stops on the source unit and continues on the destination unit
   ➜ The icon ⇨ disappears
5. To stop MUSIC FOLLOWS ME, press **STOP ■** on the destination unit

Helpful hints:

After activating MUSIC FOLLOWS ME on the destination unit:

– make sure that the source unit is switched on or is already in standby mode.

– you can select other tracks or source for playback.

15.1.2 MUSIC BROADCAST

MUSIC BROADCAST allows you to broadcast music from Center to Stations (sold separately).

On the Station

1. Check that the Station is switched on or is already in standby mode (see ***5.Basic functions***)

On the Center

2. In HD source, select and play the album or playlist that you wish to broadcast to the Stations (see ***6.2 HD: Selecting and searching***)
3. Press **MUSIC BROADCAST** to activate
   ➜ The icon ⇨ appears on the Center and Stations. A 5-second countdown starts.

➜ **On the Center and Stations:** The selected music starts to play simultaneously after the 5-second countdown.

4 To stop **MUSIC BROADCAST**, press **STOP** ■ on the Center

Helpful hints:

- *To exit MUSIC BROADCAST on a Station, press* **STOP** ■ *on the Station. To broadcast music to the Station again, press* **STOP** ■ *on the Center, and then activate MUSIC BROADCAST on the Center again.*
- *MUSIC BROADCAST will also stop when:*
  - *the Center is put to standby mode or power-saving mode;*
  - *the selected album or playlist has reached the end.*
- *To set play modes, select Repeat or Shuffle before activating MUSIC BROADCAST.*

16. Specifications

English

General

AC Power ..... 230V ±10%
Dimensions (w x h x d) ..... 185 x 210 x 248mm
Weight (with/without speakers) .....
..... approx. 5.5 kg / 3.5 kg

Power consumption

Active ..... < 45W
Standby ..... < 20W
Eco Power Standby ..... < 0.9W

Amplifier

Output power ..... 2 x 40 W (RMS)
Frequency response ..... 60-20,000Hz, - 3dB
Signal-to-noise ratio ..... ≥ 72 dBA (IEC)
Input sensitivity
AUX IN 500mV
Impedance speakers ..... 12 Ohm
Impedance headphones ..... 16 Ohm-150 Ohm

Wireless

Wireless standard .....
..... 802.11g, backwards compatible to 802.11b
Wireless security .....
WEP (64 or 128bit), WPA/WPA2 (8-63 characters)
Frequency range 2412-2462 MHz (CH1-CH11)

Wired (LAN / Ethernet)

Wired standard ..... 802.3 / 802.3u
Speed ..... 10 / 100 MBit/s
Mode ..... half / full duplex
Crossover detection (Auto MDIX) ..... Yes

Tuner

FM wave range ..... 87.5-108 MHz
Number of presets 60
FM antenna/cable .....
COAX / Dipole-antenna (75W IEC-connector)

HDD/CD player

Frequency range ..... 60-20,000 Hz, -3 dB
Signal-to-noise ratio ..... 72 dBA (IEC)
MPEG 1 Layer 3 (MP3-CD) ..... MPEG AUDIO
MP3-CD bit rate .....
..... 32-320 kbps, VBR
WMA bit rate ..... up to 160 kbps
Sampling frequencies ..... 32, 44.1, 48 kHz
HDD storage capacity 80GB*
Recording quality .....
..... 128, or 160, or 192, or 256, or 320 kbps
Recording speed 1x, 4x
CDDB (CD recognition database) .....
..... internal Gracenote® / online access enabled

* Actual formatted capacity will be less

USB player

USB 12Mb/s, V1.1
..... support MP3, WMA and M4A files
USB class ..... MSC, MTP
Number of tracks/titles ..... maximum 9999

Speakers

2-way bass reflex system
Dimensions (w x h x d) ..... 160 x 208 x 263mm

Specifications and external appearance are subject to change without notice.

Question	Answer
Is there a maximum distance of transmission between Philips Wireless Music Center and Station/PC for effective streaming?	Yes. The maximum distance of Wi-Fi transmission is 250m measured in open spaces. However, in a home environment, there solid obstacles such as walls and doors are present, the effective transmission distance is significantly reduced to approximately 50-100m. Try to re-position the set if you experience transmission problems.
What does "Recording from CDs" mean and what functions can I use while the recording is in progress?	"Recording from CDs" is the process by which a CD track is converted into the much smaller MP3 format, and is then added to the Wireless Music Center's music library (hard disk). On the Wireless Music Center, "Recording from CDs" requires two stages: firstly, it reads the CD content and store it temporarily on the hard disk; secondly, it converts this temporary CD content into MP3 format - a process called "background-encoding". It takes 1 hour to convert 1 hour of CD music. During the first stage you cannot stream or broadcast music from the Center.
Do I need to immediately update the Gracenote music recognition database stored in Philips Wireless Music Center straight after bringing it home?	No. There is already a massive CD-tracks database pre-stored in Philips Wireless Music Center, which should match most of the CDs released within the last six months.
Does Philips provide Gracenote music recognition database updates?	Yes. We provide quarterly updates of the Gracenote music recognition database through the website http://www.club.philips.com. Download the file to your PC and update the built-in Gracenote music recognition database from the PC using WADM in the supplied PC suite. Or you can burn the downloaded file on a CD and insert the CD into the CD loader on the Center for update.
What is Philips Wireless Audio Device Manager (WADM)?	WADM mainly serves to transfer your PC's music library to the Wireless Music Center. In addition, it provides a one-stop solution to help you manage the music library on the Center music library, such as edit track information, create/rename playlists, backup/restore music library in the Center, as well as network setting, Gracenote music recognition update, Firmware upgrade. For details, see the manual **Connect to your PC** and WADM help file.

17. FAQ

English

Simply connect and enjoy

You have a lot of MP3 files on your portable music player. You would like to enjoy them with your family and friends on a better sound system. Philips WAC3500 offers instant access to your music via 'USB Direct' – in the comfort of your living room

Supported devices

Philips WAC3500 'USB Direct' allows simple plug-and-play compatibility with MP3 players and USB flash drives that are compliant with USB Mass Storage Device Class.

Question	Answer
What is " USB Direct "?	Philips 'USB Direct' enables you to playback MP3, M4A and WMA music files from a USB device to the WAC3500 and to transfer music files from the WAC3500 to a USB device.
Can I copy files via USB Direct from the WAC3500 to a USB device and vice versa?	Yes. You can copy music files from the WAC3500 to a USB device. You cannot copy music files from a USB device to the WAC3500.
How do I use the USB Direct ?	a. Simply plug in your USB device b. Press **HOME** and use the navigation controls ▲ or ▼ and ▶ to select **Portable** > **USB**. c. Use ▲ or ▼ and ▶ to select the file you want to play.
How do I copy music files from the WAC3500 to a USB device?	a. Simply plug in your USB device b. Press **HOME** and use the navigation controls ▲ or ▼ and ▶ to select **HD** mode c. Use ▲ or ▼ and ▶ to navigate in a playlist, artist list, album…etc., and enter its corresponding list of tracks. d. Press **REC ●** to invoke the selection option. e. Press **MARK•UNMARK** to select/deselect tracks and press **REC ●** once again to start copying.
How do I exit the USB Direct?	Stop playback of the files and press **HOME** to exit. Or, just unplug your USB device.
Can I play music from my portable MP3 player or USB flash drive via USB Direct?	Yes. As long as your MP3 player or USB flash drive is compliant with the USB Mass Storage Device Class and does not contain any proprietary database, then you should be able to play music from your portable MP3 player or USB flash drive via USB Direct.

Question	Answer
Why doesn't my USB Mass Storage Device Class (umass) work with the WAC3500?	Since there are various kinds of USB Mass Storage Device Class (umass), not all devices are guaranteed to be compatible. For example, some USB flash drives can work on Windows XP, Apple Mac and Linux, but some USB flash drives can work on Windows but not Mac. This is because some drive manufacturers test their devices on the Windows XP platform only, not fully complying with the specification of the USB consortium of testing on most platforms. This also explains why Linux does not support all USB Mass Storage Device Class (umass).
Does USB Direct work with Apple iPods?	USB Direct can work with Apple iPod Shuffle, iPod Video, iPod Nano and iPod Photo, but for large capacity players, it is not recommended to connect them to USB Direct, because it will take a long time for the Center to categorize the content.
Does USB Direct work with Philips GoGear?	USB Direct works with most Philips GoGear MP3 players such as the SA11xx, SA12xx, SA13xx series, but not the hard disk based MP3 players.
When I plug in a USB device in the WAC3500 and switch to USB mode, the display shows a message "No USB device detected". What does this mean?	This means your USB device cannot be recognized by USB Direct.
Does USB Direct support the play back of protected contents?	No. The WAC3500's USB Direct feature does not support the playback of any protected music files on the Center.
Why does it take so long to display the contents on my USB device?	This could be due to the large number of files or the size of the files on your USB device. Or, there could be other non-supported file formats on your USB device that the system is trying to read.
How are the songs sorted when the USB device is plugged into the WAC3500?	The songs will be scanned and categorized into: Playlists, Artists, Albums, Genres and All tracks.

17. FAQ

English

Question	Answer
What is the maximum number of tracks that the WAC3500 supports?	WAC3500 supports a USB device with a maximum of 9999 tracks.
Why does the system not play some of my music files?	Only music files in the following formats are supported : • MP3 (bit rates from 8 to 320 kbps; sampling frequencies from 8 to 48 kHz); • WMA (v7 & v9 'Standard' audio, CBR or VBR, with bit rates up to 192 kbps with any standard sample frequency.) • AAC (AAC-LC audio up to L3 in MPEG-4/.m4a files.)

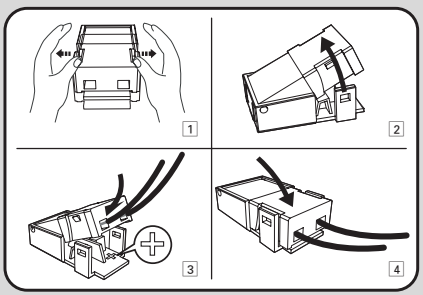
Philips has tested and confirmed that the WAC3500 supports the following products:

Flash Player	– **Philips:** KEY007, KEY010, KEY013, HDD1XX (HDD100 / HDD120), SA16X (SA160 / SA164 / SA165 / SA167 / SA169), SA170, SA175, SA177, SA179, SA159, SA26X (SA261), PSA61X/PSA612, HDD084, HDD1XXX (HDD1830/HDD1420/HDD1620/HDD1630/HDD1835), HDD6XXX (HDD6320/00), SA1100/02, SA1115/02, SA12XX, SA13XX (SA1300/02), SA2000, SA40XX, SA5000, PMC7230, SA9XXX (SA9200, Flat I), SA21XX, SA31XX, SA41XX, SA51XX – **Apple:** iPod Shuffle, Shuffle Gen 2, Mini, Nano Gen 1/2, Photo, Video Gen 1/2 – **Creative:** Zen Micro, MuVo TX FM, MuVo Micro N200, MuVo VIDZ, Zen Music.Photo Vision:M, DMPFX200 – **Sony:** NW-HD3, NW-E105, NW-E307 – **iRiver:** U10CT (0081) OR 103, H10, T10 – **JNC:** SSF-F302 – **Samsung:** YP-T7V – **SanDisk:** Sansa m260
Flash Drive	– **SanDisk:** Cruzer Flash Drive, Cruzer U3 Flash Drive – **Sony:** Mirco Vault Elite – **Toshiba:** Flash memory U3 – **PQI:** PQI

WARNING

Never try to repair the system yourself as this will invalidate the warranty. Do not open the system as there is a risk of electric shock.

If a fault occurs, first check the points listed below before taking the system for repair. If you are unable to resolve a problem by following these hints, consult your dealer or Philips for help.

Problem	Solution
I get interference on my wireless (Wi-Fi) link between the Center and Station/PC. The WAC3500 operates in the 2.4GHz radio frequency spectrum. Many other household/IT devices also operate in this frequency spectrum, for example: microwave ovens, DECT phones, Bluetooth devices like Bluetooth headphones, computer mouse, wireless routers, cordless phones, Wi-Fi compatible printers, PDAs. These devices can interfere with the Wi-Fi link between the Center and PC, resulting in interference such as pause during playback, slow response to your operation, etc. The severity of interference varies depending on the extent of radiation from the device and the strength of Wi-Fi signals in that position.	If you are playing the set, stop playback and take the appropriate measures as follows: ✔ Keep the Center at least 3 meters away from such devices. ✔ Use the WEP/WPA/WPA2 key when connecting the Center to an existing wireless PC network. To set WEP/WPA/WPA2 key, connect Center to your PC using Philips Wireless Audio Device Manager (WADM) in the bypacked PC Suite CD. In WADM's Device configuration, enter the Wireless Network submenu, and in Device Wireless Authentication Type, select WEP or WPA/WPA2. ✔ Change the operating channel of the Center when connecting it to an existing wireless PC network. To change channels, connect the Center to your PC using Philips Wireless Audio Device Manager (WADM) in the bypacked PC Suite CD. In WADM's Device configuration, enter the SSID of your Wireless Network, and select Ad-hoc mode. See the manual **Connect to your PC** and the WADM help file. ✔ If possible, change the operating channels of the other Wi-Fi devices at your home. ✔ Turn the devices in different directions to mi mize interference.
I accidentally pull the speaker wires out of the clip.	✔ Follow the illustration below to insert back the speaker wires (gold wire to the hole marked "+" and silver wire to the other hole). 

18. Troubleshooting

English

Problem	Solution
The remote control does not function properly	✔ Reduce the distance between the remote control and the set. ✔ Insert the batteries with their polarities (+/– signs) aligned as indicated. ✔ Replace the batteries. ✔ Point the remote control directly towards the IR sensor.
The WAC3500 Center's screen is stuck in a menu or shows no response for a long period of time (2-5 minutes).	✔ Please first try to press STANDBY-ON/ECO POWER to go to power saving mode. If the problem persists, suggest to unplug and re-plug the power to restart the WAC3500.
"No Disc"/ "Cannot read CD" is displayed	✔ Insert a suitable disc. ✔ Check if the disc is inserted with graphic printed side facing up ✔ Wait for the moisture condensation on the lens to clear ✔ Replace or clean the disc, see **1.5 Maintenance**. ✔ Use a finalized CD-RW or CD-R.
Sound cannot be heard or is of poor quality.	✔ Adjust the volume. ✔ Disconnect the headphones. ✔ Switch off MUTE. ✔ Connect the speakers properly.
The disc skips tracks	✔ Replace or clean the disc ✔ Switch off SHUFFLE
Sound skips during MP3/WMA playback	✔ The MP3/WMA file may be made at a compression level exceeding 320kbps. Use a lower compression level to rip audio CD tracks. ✔ Replace or clean disc.
Some files on the USB device are not displayed	✔ Only completely recorded MP3/WMA files can be found and played by WAC3500. Check if the file has been completely recorded. ✔ DRM-protected WMA files cannot be played on WAC3500.

Problem	Solution
Radio reception is poor	✔ If the signal is too weak, adjust the antenna or connect an external antenna for better reception. ✔ Increase the distance between the set and your TV or VCR.
There is interference on the radio reception whenever the Center is near my PC **Such interference happens to most built-in tuner products**	✔ Install the supplied FM wire antenna for better reception. ✔ Keep the Center at least 1 meter away from your PC.
Some WADM functions cannot be used	✔ Your anti-virus software might affect the running of the WADM. Turn off your anti-virus software temporarily.
I edited ID3 tags in WADM, but the screen does not show the updated ID3 tags. What shall I do?	✔ Go to **File** > **Refresh Content** to refresh the WADM. ✔ Restart WADM.
Backup function cannot work anymore	✔ This is because the previously backed up file was deleted in Windows Explorer. Never delete the file this way. If you want to delete the back up file, please use WADM to manage. If the backup file is accidently deleted, please find out the file named YOURMAC.inx by using your Explorer's search tool and then delete it. Only after that you can do backup again.
I have problem installing WADM or after installation, I cannot launch WADM	✔ Please make sure your Operating System is either Windows 2000 with service pack 4 and above, or Windows XP. ✔ Please check if your PC has virus.
I see the message "Check the internet setup for Gracenote online" even though I am sure that the WAC3500 is connected to my home wireless network with internet connection.	✔ Please go to **Menu** > **Settings** > **Network** > **Internet** to check if your DNS server is correctly set up. Also make sure that you have set up proxy server if your home wireless network needs a proxy server for internet connection. ✔ There is a chance that you are already successfully connected to Gracenote online, but your CD is not in their database.

End-User License Agreement

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WAC3500/3500D

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Printed in China
3141 075 21911
PDCC-2007